

CONVAIR **Weekly Log**

January 7, 1985

*Published by the Convair Division of General Dynamics***KC-10 Assembly Calls It Another Successful Year**

It takes a lot of people to build the KC-10 fuselage. Our photographer caught part of the group as they gathered to celebrate another successful year and the delivery of Ship 412. Nine units were delivered in 1984, with 12 units scheduled for 1985.

Teamwork in the KC-10 program extends beyond the workplace. Before Christmas, shop stewards, supervisors, and employees working on the KC-10 program got together and chipped in cash and an estimated \$1,000 in groceries to help out three new employees in need of assistance. From Ray Peters, Operations supervisor, comes a big "thank you" to everyone who helped out!

**Parking Lot Improvements
To Be Complete This Week**

Heavy rains over the year-end holiday forced delay of parking lot changes, particularly restriping and traffic pattern changes at Kearny Mesa lots. If fair weather continues, all work should be done by the beginning of this week.

Parking lot revisions are being done to create additional commuter and customer parking and to improve perimeter security through better ingress and egress patterns to the plant. Everyone's patience and cooperation during the completion of this work is appreciated.

**Materials and Process
Engineering Milestones**

The completion of a full-scale boron/aluminum conical frustum marked an important milestone in advanced metal matrix composite technology for a group of Convair engineers and technicians. (Remember your high school geometry? A frustum is a section of a cone-shaped solid next to the base formed by cutting off the top of the cone.)

The work is being done for the Army Materials and Mechanics Research Center (AMMRC) to produce a lightweight equipment section for an advanced missile concept. The frustum, the first of a series of four parts we are building, will now be sent to the Harbor Drive Test Facility for structural evaluation in a special compound test setup.

In the photo below, Don Weisinger, program manager, is seated in front of the completed frustum. From left, Nick Martin, assistant fabrication engineer, Jim Haile and Bill Reed, technicians, and Charlie Maikish, head fabrication engineer, form the Materials and Process team.


1985 Payroll Deduction Changes

You might have noticed some changes in your first 1985 paycheck.

1. The FICA withholding rate (that's the social security tax) increased to 7.05% of taxable wages paid after January 1, 1985, with a maximum of \$2,791.80 that can be withheld during 1985. For every dollar the employee pays in social security tax, the company pays a matching amount.

2. The California State Disability Insur-

ance rate will decrease in 1985. The tax rate will be 0.6% of taxable wage base, compared to the 1984 rate of 0.9%. The maximum amount of withholding for California State DI is therefore decreased from \$197.10 (1984) to \$131.40 in 1985.

3. These payroll deduction changes were reflected in the first paychecks of 1985, which were distributed last Friday, January 4.

NMACC State of the Division Meeting

A Look Back at 1984 and Ahead in 1985

A capacity crowd is expected at the January 15 NMA Convair Chapter meeting to hear General Manager John McSweeney's State of the Division address — an overview of Convair's accomplishments in 1984 and a preview of what's ahead in 1985. The event will be held at the Town & Country Hotel, and will be sponsored by Advanced Programs, with Bill Vega as executive host. Tickets are \$10 for NMACC members and \$15 for nonmembers. After you have your tickets, call Dee Kelley, 27320, for your table reservation.

Supervisor Briefings

Special one-hour briefings for all supervisors of salaried (exempt and nonexempt) employees will be held between January 14 and 25 at the times and locations listed below. The topic will be Preparation of the 1984 Performance Appraisals for salaried employees. At Kearny Mesa, the briefings will be held in the employee dining room; at Lindbergh Field, meet in the building 14 auditorium.

Date	Time
KM, Monday, Jan. 14	3:30 p.m.
LF, Wednesday, Jan. 16	7:30 a.m.
KM, Thursday, Jan. 17	7:30 a.m.
LF, Thursday, Jan. 17	3:30 p.m.
KM, Tuesday, Jan. 22	3:30 p.m.
LF, Wednesday, Jan. 23	7:30 a.m.
LF, Thursday, Jan. 24	3:30 p.m.
KM, Friday, Jan. 25	7:30 a.m.

Security Tip

"For official use only" is a security classification marking that we rarely see because it is used primarily on federal and military documents. Some cruise missile training manuals published by our Technical Publications department bear the FOUO markings in small print. Those documents should be handled the same as General Dynamics Private Information — when in use, the need-to-know principle applies; when not in use, store the material in locked desks or cabinets.

Savings and Stock Plan Values for October 1984

	1982	1983	1984
Salaried			
Government Bonds	\$ 3.2826	\$ 3.5780	\$ 3.9040
Diversified Portfolio	2.4013	3.1048	3.2359
Fixed Income	1.4043	1.5739	1.7684
Hourly			
Government Bonds	3.2806	3.5762	3.9014
Diversified Portfolio	2.4517	3.1678	3.2842
GD Stock	\$32.7500	\$54.5000	\$64.2500

DSD-WC Convair Site Office and Infonet Move

Western Center's Convair site office has moved from building 4 at Kearny Mesa to temporary building C between Convair's building 5 and Electronics Division's building 33. They have a new mail zone — 51-5610 — but their phone numbers remain the same. The general number is 35466.

The Infonet group also moved to temporary building C from building 4. They're the ones who answer questions about personal computers and operate the walk-in information center. Their phone number is the same — 33326.

Cyber Conversion Continues

Phase II of the schedule to replace the Cyber NOS/BE operating system with the new NOS operating system began last week. During this phase, NOS/BE (old system) will not be available until noon, Mondays through Saturdays. When Phase III of the conversion begins on February 11, NOS/BE will not be available to first shift users (7:30 a.m. to 4:15 p.m.).

Cyber system users have been converting their programs for use on the new NOS system since March. Users who have not made the final conversion from NOS/BE should contact Jack Wood, 33979, for assistance or training.

Manufacturing Specifications Hotline

A Manufacturing Specifications Control Center was recently formed to support the new Manufacturing Specifications hotline. Hotline personnel will respond to your requests for action, in-work status of new or revised specifications, and applicable specification numbers. They'll also provide you with information on:

- Manufacturing Operations Specifications
- Manufacturing Instruction Specifications
- Standard Work Instructions
- Visual Aids
- Manufacturing Materials Specifications
- Douglas Process Specifications
- Handling Packaging Standards

The hotline number is 26262.

November Retirees

Convair's thanks and wishes for a happy retirement go to these employees who retired in November.

Name (Dept.)	Years of Service
Ivory A. Bates (015)	
Radial Drill Press Operator	18
Ralph H. Brent (345)	
Aircraft Assembly Inspector	43
Timothy K. Hall (312)	
QA Engineering Specialist	4
John R. Kemble, Sr. (684)	
Project Engineer	6
David Salvatierra, Jr. (001)	
Overarm Saw Operator	37
Fred C. Taylor (637)	
Sr. Project Engineer	30
George L. Wright (015)	
Lathe Machinist	14

Professional Opportunities

JA Advisors Wanted. Junior Achievement is a nonprofit business training program for high school students in which they learn about the American business system by operating their own company. A one-day training course for Junior Achievement advisors is scheduled for January 17. Call Rick Allen, 28889, for details.

Personal Skills for the Manager. Begins January 15 and meets at KM in the bldg. 25 second floor east conference room. For details, call facilitator Julian Jaeger, 34385.

Law for the Layman. Starts January 19 and meets in the R&E conference room in bldg. 25 at KM. The course facilitator is Drew Griffin; register with Bill Clark, 49652.

Technology for Non-Engineers. The topic of the January 16 meeting will be Propulsion System — Shuttle/Centaur. Meet in the KM bldg. 2 presentation room at 4:45 p.m. If you haven't registered for previous sessions, call Chloe at 38836 to sign up. This is the third in the continuing series.

Employment

For the week ending December 21, employment was 11,891.

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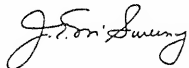
The 1984 U.S. Savings Bond Drive Results Are In 91.4%

Once again, Convair and Western Center have achieved an outstanding level of participation in our annual savings bond campaign.

91.4% participation represents a lot of effort on the part of many who worked on the campaign. More important, it represents the willingness of our people to support the U.S. government, our principal customer.

As Honorary Chairman of the San Diego Metro Area Bond Drive, I am particularly pleased that Convair and Western Center turned in such a fine performance.

Thanks to everyone for a job well done!



John E. McSweeney

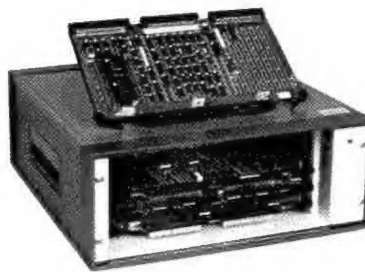
Here's How We Did It

The annual bond drives have always had outstanding support from General Dynamics people, and this year was no exception. Twenty-one departmental coordinators and hundreds of supervisors helped in distributing the materials and collecting the cards. With Convair people based in Europe, throughout the United States, and in many Southern California locations, our electronic mail system was used effectively for timely reporting of results.

Operations and Research & Engineering led the way in new purchasers. The largest functional organizations within Convair, they accounted for about 75% of the 3,495 new bond purchasers. Western Center added 470 new purchasers, for a combined total of 3,965.

Integrated Logistic Support, with 608 employees, racked up an impressive 99.8% participation, only several short of 100%. Industrial Relations was close behind with 98.2%. All the program offices achieved 100%: Cruise Missile, Space, Energy, Aircraft, Small ICBM/Hard Mobile, and Advanced Programs. Legal, Productivity, and the General Manager's staff also reached 100%.

Totally Reconfigurable Embedded Computer



It's not just a black box . . . introducing Convair's Totally Reconfigurable Embedded Computer — TREC.

TREC Successfully Tested

A team of engineers and technicians in the Processing Technology group have reached a major milestone in the development of TREC, Convair's second-generation embedded computer. (An "embedded" computer means that it will become part of a larger piece of hardware or weapon system.) TREC was successfully tested recently at the Air Force System Engineering Avionics Facility in Dayton, Ohio. It will be used in several of our programs, particularly in the Cruise Missile Advanced Guidance and Tactical Ladar Seeker programs. DIS — Digital Integrating Subsystem — is the first-generation computer developed here, and it is used primarily in the Mid-Course Guidance Demonstration program.

Why is TREC a breakthrough? For one thing, it is reconfigurable; that is, users can tailor it to suit their needs. It supports a variety of hardware or software and its performance capabilities far exceed those of embedded computers in use now, including a two-million-word memory capacity, a throughput of one million operations per second, and floating point. TREC can also operate as a standalone computer or as a node in a federated computing system. It can also be configured with multiple processors, providing increased throughput capability.

Currently, TREC can be programmed in either assembly language or the Air

Force's approved high-order language called JOVIAL. Work is also under way to permit TREC to be programmed with Ada, the Department of Defense high-order language.

Both DIS and TREC were developed by the Processing Technology department at Convair.

FY85 Tomahawk Award

The Joint Cruise Missiles Project announced on December 19 that Convair Division was awarded 60% of the total fiscal year 1985 Tomahawk Cruise Missile All-Up Round production buy. This represents the maximum quantity that could be awarded to Convair in FY85 under the Dual Source Production program arrangement. The initial contract is for 162 land-attack nuclear and antiship missiles. In addition, 18 conventional land-attack missiles are planned to be awarded to Convair by March 31 pending successful completion of operational evaluation and Congressional release of the funding.

This competitive procurement contract award led to the accomplishment of one of Convair's major 1984 goals. Thanks to all employees who contributed to this significant win!

Tomahawk Scoreboard

Tomahawk land-attack missile-conventional (TLAM-C) T137 was successfully launched from USS *Merrill* (DD 976) on January 11. The missile flew a typical TLAM-C mission over an inland route to the Naval Weapons Center at China Lake, California, where the missile employed a terminal dive maneuver to impact a simulated target.

EQIP Training Course Begins

Engineering quality improvement is a major objective for General Dynamics Corporation and for Convair Division as well. To meet those goals, an aggressive Engineering Quality Improvement Program (EQIP) has been formed in Research & Engineering. Fifteen training courses were initiated in 1984.

During 1985, you will be hearing a lot about EQIP and, if you are in Engineer-

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ing, you will be personally involved as an instructor or participant. Every functional group in Research & Engineering will conduct in-depth training to improve the quality of their designs, analyses, reports, and studies. EQIP training course attendees will receive presentations on developing positive work attitudes, tips on how to do their jobs better, and methods for better task management.

To kick off the first sessions of 1985, Dan Da Pra, division vice president – Research & Engineering, Randy Simpson, director – Systems Engineering, and Gerry Smith, manager – Configuration and Data Management, made presentations to the EQIP attendees.

Data Management of the Configuration and Data Management group completed the first formal course, developed by Dom De Crescenzo, on December 21 (photo right). Sixteen people received EQIP certificates for completing the course.



John Colbert, Quality Assurance Employee of the Month for November. John Colbert began working at Convair in 1956 as a welding inspector in Atlas Basic Missile Assembly at Lindbergh Field. Twenty-eight years later, he's using his considerable expertise to ensure launch vehicle quality by leading the inspection crew at Plant 19 as they proof out the basic missile tank for Shuttle/Centaur. He was recently named Quality Assurance's Employee of the Month for November and was congratulated by Ray Brown (left), supervisor – Inspection, and Rudy Molina (right), director – Quality Assurance.

Interested in Becoming a T&O Planner?

Tool and Operations Planning, in cooperation with Educational Services, announces the opportunity for Convair employees to become T&O planners. The requirements for this six-week classroom and 16-week on-the-job training program are very specific and include a strong desire to become a planner, an associate degree including math or industrial technology courses, and blueprint reading experience. Applications, which are available at both KM and LF Educational Services offices, must be received by January 18. For more information, call Bob Rix, 39558.

JA Advisors Wanted

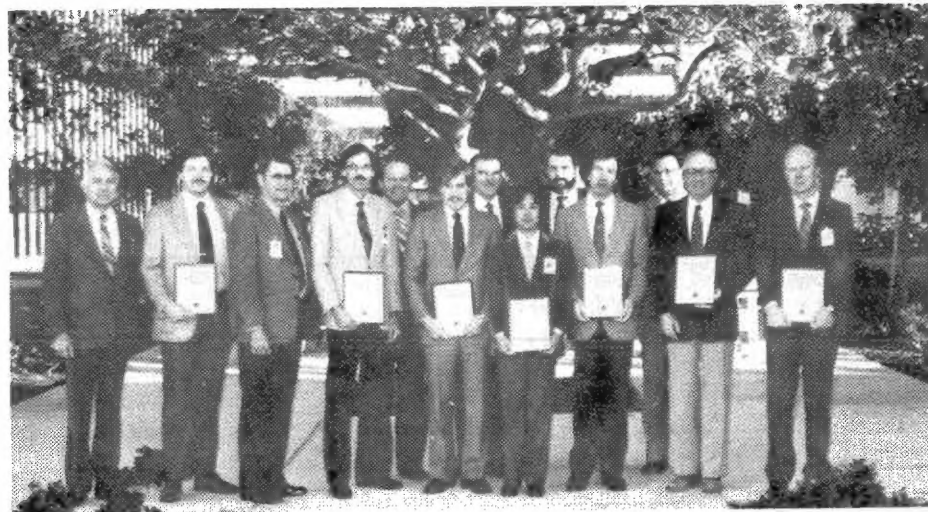
Junior Achievement is a nonprofit business training program for high school students in which they learn about the American business system by operating their own company. A one-day training course for Junior Achievement advisors is scheduled for January 17. Call Rick Allen, 28889, for details.

Employment

For the week ending January 4, employment was 11,890.

Blood Screening Program

The CRA Health-Fitness Center will offer the Metpath blood screening program on January 23 and 24 in the Kearny Mesa employee dining room. The blood screen detects abnormal levels of HDL, LDL, glucose, sodium, and 22 other components, any of which may indicate a "silent" health problem. The cost is only \$20. It is important not to eat or drink (water is o.k.) 12 hours before the test. For registration, call the Health-Fitness Center, 39921.



Eight members of the Structures and Design group were recently honored for their outstanding performance during 1984. Individual contributions varied from solving critical programs on mainline programs to outstanding technical input to IRAD and CRAD programs. The honorees were (front row, from left): Peter MacNeil, senior engineer; Bruno Bracka, director – Structures and Design (presenting the awards); Steve Kewley, Checking group engineer; George Kendall, engineer; Lance Komo, senior engineer; Jim Aleszka, engineering specialist; Keith Lauer, engineering specialist; and Rich Brand, engineer (Joe Cimenski, senior engineer, was not present). Also on hand to extend their appreciation were Ray Stoker, chief – Engineering (front row, far left) and (second row, from left) Roy Poston, manager – Engineering Support, Larry Shaw, chief – Engineering, Joe Wallace, group engineer, and Jules Hertz, engineering specialist.

CONVAIR

Weekly Log

January 21, 1985

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STATE OF THE DIVISION HIGHLIGHTS



"My employee of the year has made a total commitment, not just in 1984, but throughout his entire career with General Dynamics, and I am pleased to honor one of Convair's unsung heroes, Jim Stevens of Program Development and his wife June."

Accomplishments and Challenges

General Manager John McSweeney gave his State of the Division address at the January 15 meeting of the National Management Association Convair Chapter. A capacity crowd of 1,200 was on hand to hear about 1984 accomplishments and 1985 challenges.

McSweeney reminded everyone that we must strike a balance between our present production and development commitments and new business competition, all the while continuing to improve quality and productivity. What follows are highlights of the presentation:

1984 Major Accomplishments: Our sales reached the billion-dollar level for the first time in division history. We also:

- Settled all major labor agreements.
- Recertified our government property system.
- Won the maximum share (60%) of the fiscal year 1985 Tomahawk award.
- Continued to meet advanced development milestones.

- Continued to make quality and productivity gains.

Programs: In 1985, production quantities will increase across all programs, the most significant being in Tomahawk All-Up Round with a 100% increase. Development programs must support key milestones in 1985 including delivery of the first two Shuttle/Centaur vehicles. Advanced development activities represent significant growth potential for the 1990s and beyond.

Resources: Employment will remain basically stable in 1985. Training will increase substantially as new people are integrated into the workforce. Facilities will continue to improve, with investment in program-unique equipment, technology and productivity enhancements, and computers.

Quality and Productivity Indicators: The Quality Improvement Program measured significant improvements including steady reductions in avoidable engineering drawing changes, scrap material and labor, rework, and inspection escapes. Productiv-

ity gains in direct labor areas were significant but were offset by a continued need for support labor.

McSweeney recognized "Convair people doing things right the first time" at the conclusion of this State of the Division address by honoring thirteen employees from across the division for their outstanding contributions, among them the 1984 Employee of the Year.

People: Our Finest Resource

The Employee of the Year selection begins with each division staff member choosing candidates whose performance truly represents excellence. Final selection rests with the General Manager. To be nominated is a great achievement. For the first time, the 1984 nominees were all recognized before the winner was announced at the State of the Division, January 15.

J.R. Stevens: 1984 Employee of the Year.

In presenting Jim Stevens, a publications coordinator and lead person in the Art & Editorial department of Program Development, with the Employee of the Year award for 1984, John McSweeney stated that Stevens represents a different segment of our division than those previously honored. McSweeney went on to say, "This employee comes from one of our service functions — those hard-working groups whose support is vital to the acquisition of new business and the timely delivery of a superior product."

Jim, who has been with Convair for 30 years, was nominated for his work in coordinating the artistic and editorial efforts of A&E's presentations group, which generates over 15,000 pieces of visual aid material each year. Jim has consistently demonstrated an extraordinary amount of commitment and personal sacrifice, and his 'can do' attitude ensures that the endless series of nearly impossible demands are met.

Gordy Lundquist, senior engineer, Cruise Missile Test Equipment. Gordy has completed cruise missile weld assembly tasks on schedule and within budget. Not only did he stay within budget, Gordy greatly reduced costs in cruise missile manufacturing — to date, his cost-saving proposals surpass \$15 million.

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Steve Lubliner, engineering specialist, Quality Assurance. His work on the GLCM flight anomaly investigation team contributed to future reliability of the system. He was named QA Employee of the Month and was also cited for his contribution to an Advanced Programs award fee.

Julie Andrews, senior Industrial Relations representative, Motivational Programs. Julie's professional and creative contributions to the division include serving as managing editor of the *Weekly Log* and the *Educational Bulletin*, 1984 U.S. savings bond drive coordinator, and IR's internal communications specialist. Last year, Julie led the nationally recognized Employee Suggestions promotional campaign, which was recognized by the National Association of Suggestion Systems with first-place honors.

Lance Komo, senior engineer, GLCM Ground System Structures and Mechanics. Lance was instrumental in meeting TEL and LCC engineering commitments within an extremely tight schedule. His nomination goes further to cite his consistently high performance, which is exemplified daily in his support of TEL and LCC production.

Kenneth Rolston, senior estimator, Estimating. As the principal estimator on the Boeing 767 closeout program, Ken devoted his considerable expertise and many long hours developing a pricing model for incomplete parts. During that period, he was also responsible for negotiating two change packages at 97% of their proposed value.

Nick Kosmas, procurement administrator, Advanced Programs Procurement. Nick's procurement work on various Convair programs has resulted not only in cost savings, but the contracts he developed are recognized as industry models in administration technique. He has served as chief program negotiator for most of Tomahawk's major systems.

Dennis Holba, group leader, Boeing Strut Assembly. Dennis' "unfailing spirit of teamwork and dedication to the task" are only part of the accomplishments that led to his nomination. He was instrumental in greatly improving strut production time, and his cost-saving suggestions significantly impacted the cost competitiveness of the program.

Isabella Gavino, senior accounting analysis, Property Administration. As the principal auditor for contract closeout certifications, Belle submitted 22 successful DCAS certifications, which saved the company hundreds of thousands of dollars in liability costs.

Thomas Johnson, project engineer, MEPO Atlas/Centaur program. During the past year, Tom led the interim contract support engineering and technical staff in performing offsite engineering support for GLCM at main operating base 1, which contributed significantly to the on-schedule deployment of GLCM in Europe.

Bill Hutchison, engineering chief, Operations Research. The operational utility studies conducted under Bill's leadership have become a significant data base in Washington, D.C. for Tomahawk briefing material. His knowledge of every aspect of the program recently prompted Rear Adm. Hostettler to request Bill's assistance in assembling the latest Capitol Hill briefing.

Darrell Blalock, senior project engineer, Hard Mobile Launcher program. In just 60 days, Darrell devised an HML vehicle chassis suitable for mockup fabrication to meet a critical field test scheduling requirement. The mobility data gathered from that effort has been vital in determining the full-scale prototype vehicle design.

Important Prescription Plan Information

Effective January 1, your prescription drugs are available only under your respective medical plans:

- **Kaiser Participants.** Your prescription, written by a Kaiser doctor or your dentist, will be filled at no cost to you. You must present the prescription along with your Kaiser Health card at one of the seven Kaiser pharmacies located in San Diego County.

- **Greater San Diego Health Plan Participants.** Your prescription, written by a GSDHP doctor or your dentist, will be filled at no cost to you. You must present the prescription along with your GSDHP health card at one of the participating GSDHP pharmacies.

- **GD Self-Funded Medical Plan (Aetna) Participants.** Your prescription, written by your medical doctor or a dentist, will be filled for you at a cost of \$1.25 per prescription. You must present your prescription along with your new 1985 participating drug plan card, which you recently received at your home address.

Brochures listing participating pharmacies for each respective medical plan are available at both Employee Benefits offices. Questions: call 39916.

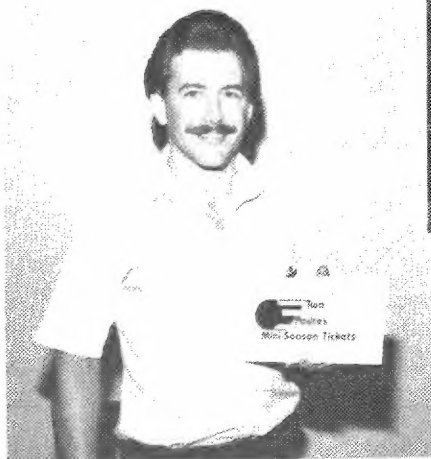
Winners in the Second U.S. Savings Bond Drawing



A.



B.



C.

A. Joe Horak (Dept. 251-8) won a trip to Vandenberg AFB to see an Atlas launch; Patty Casspasso (Dept. 629) won a day cruise for two to Ensenada; and Gregory Mink, Western Center, won the grand prize — a trip to Florida to see a Space Shuttle launch. **B.** Randy Wagner (Dept. 351-0) won a \$100 bond and Lorri Maida (Dept. 102-3) won 30 free lunches in the employee dining room. **C.** David Fox (Dept. 031) won a pair of San Diego Padres mini-season tickets. Jan Lawrence (Dept. 102-0) won a \$100 bond. She was not available for a photo.

University of Redlands Information

There will be a short presentation on the University of Redlands degree programs today, January 21, at 4:30 p.m. in mockup conference room A, building 5, Kearny Mesa (southwest corner). Tuesday, January 22, the same presentation will be given at the building 14 auditorium at Lindbergh Field beginning at 4:00 p.m.

Employment

For the week ending January 11, employment was 11,907.

Convair Night at Disneyland

Coming Up February 23
Tickets are now on sale
at locations displaying
the large Disneyland poster

CONVAIR Weekly Log

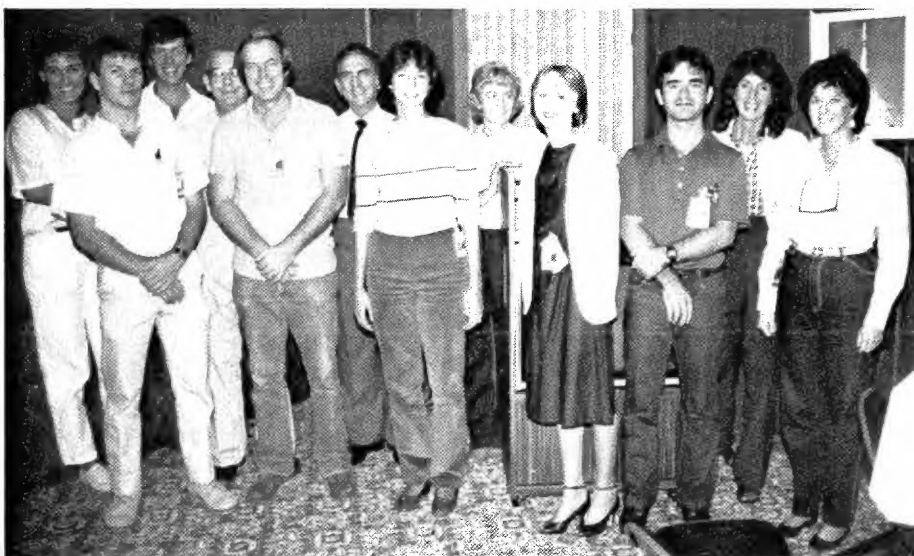
January 28, 1985

Published by the Convair Division of General Dynamics

General Manager John McSweeney set forth the 1985 division goals at the January 15 State of the Division address. Clip these and keep them for reference during the year.

1985 Division Goals

- ✓ Meet full-scale development milestones.
- ✓ Develop our management team to meet our business potential.
- ✓ Capitalize on cruise missile opportunities.
- ✓ Capitalize on Small ICBM opportunities.
- ✓ Finalize Atlas and Atlas/Centaur orders.
- ✓ Capitalize on at least one spacecraft opportunity.



Convair People at Eastern Test Range: Year-End Report. Once again, the 355 Eastern Test Range employees of General Dynamics Convair Division in Florida got together and raised money, food, and clothing to help needy families in their community before the holidays. According to John Mazza, Industrial Relations chief at ETR, their efforts were an outstanding success and could not have been done without the cooperation and generosity of all employees and the dedicated service of the program committee. Committee members are (left to right): Leslie Caputo, Tom Hernacki, Bob Stoekle, Jim Matthews, Alfred Grace, John Mazza, Lori Reidel, Virginia McKay, Paula Miller, Ron Bradley, Pat Whisenant, and Pamela Annulis. (Members of the committee not present: Warren Holley, Tom Malone, Keith Mecholic, and Cara Sawyer.)

Savings and Stock Plan Values for November 1984

	1982	1983	1984
Salaried			
Government Bonds	\$ 3.3096	\$ 3.6100	\$ 3.9553
Diversified Portfolio	2.5804	3.2414	3.2060
Fixed Income	1.4172	1.5888	1.7852
Hourly			
Government Bonds	3.3076	3.6084	3.9542
Diversified Portfolio	2.6352	3.3076	3.2544
GD Stock	\$31.1300	\$58.3750	\$65.8800

Important Stock and Savings Investment Plan Information

- The annual yield on the fixed income fund of the SSIP should be approximately 12.5% in 1985. Assets are invested with Aetna, Travelers, and Mutual Benefit of New York.
- Effective January 1, 1985, the interest rate to be used for salaried SSIP loans during the first quarter of 1985 is 8%. This rate is based on the first auction of 90-day T-bills on the first Monday of the quarter.
- Reminder: During the month of February, SSIP members may elect to change their percentage of deduction or plan option. Changes will be effective on the first full pay period of April.

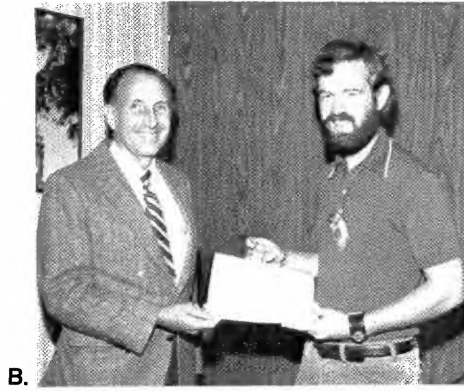
Effective today, the north end of aisle 5, from D-5 to F-5, in building 5 at Kearny Mesa will be permanently closed to make room for new cruise missile test equipment. Enter the area through card access doors on the north and east sides of Cruise Missile Final Assembly or check with the guard at column F-5.

We Apologize!

It must be true that 13 is an unlucky number. The thirteenth candidate for Employee of the Year, Newton Johnson, was inadvertently left out of last week's Bluesheet story about the awards made at the State of the Division night. Newton was nominated for Employee of the Year from Cruise Missile Guidance & Control (Dept. 678). He's an engineering specialist whose work in developing imaging guidance techniques for the Cruise Missile Advanced Guidance program has made him Convair's recognized terrain-following expert. In his work on the CMAG program, Newton is responsible for all systems analysis, including guidance and control, mission planning, and vehicle performance.

Two other factual errors to set straight: Gordy Lundquist is a manufacturing engineering specialist in Manufacturing Technology. Tom Johnson is chief of Production Support Field Services, Integrated Logistic Support.

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A. Two more Convair people have successfully completed the four-year apprenticeship program. **A. Janie Blair** is being congratulated by Mike Holmes, manager - Manufacturing Planning, as she receives her journeyman certificate. Janie graduated as a senior T&O planner and will be assigned to Department 431. **B. John Tupta** (right) graduated as a tool and die maker and will be assigned to Department 454. Glenn Gill, senior manufacturing engineer, is presenting John with his certificate.

Coming Soon



Convair Night at Disneyland

From 8:00 p.m. to 1:00 a.m. on Saturday, February 23, Disneyland will be closed to the general public as General Dynamics and Rohr employees enjoy a private party at the park. Your ticket price — \$8 per person (children under 2 free) — entitles you to unlimited use of all attractions and shows (except arcades), free parking, and admission to the Magic Kingdom. Round-trip bus tickets are \$9.50 each.

Disneyland is celebrating its 30th birthday this year and you could win a gift. Every 30th guest will be a winner during the special anniversary celebration. Buy your tickets now.

Scholarship Applications Available

Every year, the NMA Convair Chapter awards scholarships to dependents of General Dynamics Convair Division and DSD—Western Center employees, regardless of whether parents are NMACC members. The primary requirement is that the dependent be a high school senior or graduate (not more than one semester past high school graduation). Complete eligibility requirements are on the application forms, which are now available at LF Educational Services (building 1, B-24), KM Educational Services (building 17), or either LF or KM Employee Benefits offices. If you have any questions, call Klaus Flitner, 28340, or Maria Rich, 27749.

What You Should Know About Upcoming Security Inspections

We are halfway between semiannual Defense Investigative Services (DIS) security inspections. The next inspection is scheduled for March. Our goal? ZERO security deficiencies.

This is the time we are required to conduct our own inspections so that we can take corrective action on possible weak areas before they become problems. Meetings are now being scheduled with departmental security representatives to plan and set up self-inspections. Additionally, Security and Investigations staff will inspect randomly selected work areas and all computer systems approved for classified processing.

You as an individual employee can help reach the zero deficiency goal. How?

- If you hold a security clearance, take the time to get thoroughly familiar with your Security Handbook, particularly the Department of Defense "reporting requirements" on page 8. DIS inspectors randomly select employees during inspection to quiz them on our security procedures. (If you don't have a Security Handbook, call Security at 38167.)
 - If you have classified information in your work area, make sure lock combinations have been changed as required (see page 8 of the Security Handbook).
 - Make sure all classified information you hold in your work area is properly marked.
 - Return all classified information no longer needed to Classified Document Control Stations.
- Call Bob Rodriquez, 38167, with questions.

Educational Services Update...

Cruise Missile Orientation. Technical Training is conducting orientations to help Convair employees gain a broad understanding of the Cruise Missile program. Response to this program has been positive. Follow-up evaluations indicate that the 20-hour program greatly reduces the time it takes new employees to adjust to their jobs. Because the Cruise Missile program is such a major part of Convair's business, many long-term employees have indicated that they too benefit from the orientation.

The class runs from 7:30 to 11:30 a.m. Monday through Thursday during the week it is scheduled. Call Mark Schwartzel, 39558.

Keyboard Proficiency Training. With the widespread use of computers in the workplace, there is a constant need to sharpen keyboard skills. Educational Services has a self-paced keyboard proficiency course for those people who want to progress beyond "hunt and peck." If you or your department has a need for this training, call Jim Cleghorn, 39941, or Patrice Sanasac, 27660, between 9:00 and 11:00 a.m.

Car Rental Information

Avis Car Rental recently made a change to their rental agreements by providing "personal effects protection" insurance in addition to collision damage and personal accident insurance.

If you choose to accept the "personal effects protection," it will cost you \$1.00 per day — a nonrefundable cost by the company since the company does not provide for personal property loss.

Employees are not to procure the optional collision insurance made available by the rental agencies because personal liability and property coverage damage for rental automobiles used in conducting business is provided by the company under appropriate policies.

General Accounting, 24894, may be contacted for further information regarding insurance coverage.

Bus Pool Openings

Bus pool openings are available for Lindbergh Field and Plant 19 employees on the 7:00 a.m. to 3:30 p.m. shift who commute from El Cajon. Morning pickup points are the intersections of Magnolia and Bradley and Mollison and Madison. Call Everett Shackelton, 28723 or 449-2389.

Employment

For the week ending January 18, employment was 11,919.

CONVAIR Weekly Log

February 4, 1985

Published by the Convair Division of General Dynamics

Shuttle/Centaur Program Meets SIL Milestone

The Shuttle/Centaur program met an important milestone the week of December 17. Their goal — established in mid-1982 — was to complete a successful System Integration Laboratory demonstration of prelaunch, launch, and in-flight compatibility of Centaur G-Prime airborne and ground avionics hardware and its associated software.

People from Avionics Design and Data Reduction (photo right) worked together to overcome a variety of problems and schedule restraints to meet the deadline. The group took their accomplishment one step further on January 25 with a follow-on demonstration.

After three weeks of advanced software testing, the program will continue with hardware verification testing at Eastern Test Range.



High-Energy Success



Another Mirror Fusion Test Facility (MFTF-B) superconducting magnet was delivered to the Lawrence Livermore National Laboratory ahead of schedule. Convair is building twenty MFTF-B coil magnets in all. The latest delivery was number 18 and the last in a series of four unique coils.

The twenty coils, along with two 275-ton coils designed by Convair and built on site by LLNL, will provide magnetic fields for the MFTF-B plasma containment system.

Earlier in the program, twelve 15-foot-diameter, 15-ton solenoids and two 50-ton C-shaped transition coils were delivered

on or ahead of schedule. The two remaining coils will be delivered in March and April, completing the largest superconducting magnet effort for the U.S. fusion program within budget and on schedule.

Standing in front of the superconducting magnet (photo left): Jim DeHope, supervisor (Dept. 064); Bob Tatro, MFTF-B program manager; Al Ritschel, Manufacturing Operations; John Heathman, MFTF-B chief engineer; Dave Olstad, design engineer; Bill White, MFTF-B operations manager; Bill Johnston, Quality Assurance manager; Kevin Higgins, stress engineer; and Gale Pollock, Chicago Bridge and Iron foreman.

Security Tip

The term "foreign travel," as it applies to the DoD security program, is defined as travel to or through a communist country. If you hold a security clearance and plan to make a trip to a communist country, you are required to report your itinerary to Security and Investigations. They will give you a security awareness briefing before you leave and a debriefing upon your return. If you have any questions, call 38167.

—OVER—



T&O Planning Training Graduates. After completing 22 weeks of classroom and on-the-job training, the third Tool and Operations Planning training class graduated on January 15. Front row (left to right): Hugh Souder, chief - Technical Training, Dr. John Barrons, manager - Educational Services, Bob Rix, senior Industrial Relations representative and course instructor, Jasper Giles, Brenda Lizana, John Sayre, and Mike Holmes. Back row: Mike Meszaros, Michael Preyer, Roland Poirier, Matthew Cesarini, Rex Kehler, David Gahan, Joseph Swinsick, Donald Derrickson, and Rodney Hammond. For information on future T&O Planning classes, call Bob Rix, 39558.

2,000th College Hire



From left: Ken Malberg, manager - Corrective Action and Support Services, Augie Daddi, Greg Lukas, and Otis Hensley, supervisor - Quality Assurance.

Augie Daddi, division vice president - Industrial Relations, made a special presentation February 1 to Gregory Lukas, an engineer in Measurement Engineering and Laboratory Support. Gregory, a graduate of the University of Michigan, was the 2,000th new college graduate hired through the College Relations department since 1978.

Convair's College Relations personnel recruit 200 to 300 new engineering and administrative employees annually from more than 50 universities across the United States. "We receive outstanding management support for our College Relations program at Convair," said Les Peck, senior College Relations representative. "It's management's support that makes our program one of the best in the corporation."

Technology for Non-Engineers

On February 13, at 4:45 p.m. in the Kearny Mesa building 2 presentation

room, engineers Fred Kuenzel and Ken Nauta will describe the Shuttle/Centaur guidance and navigation systems. First-time attendees: call Kathy at 39272 for a reservation.

Hazardous Waste in Your Workplace?

1. Please do not use "deposit" drums for the collection of hazardous waste. Deposit drums can be turned in for reimbursement, just like a soft-drink bottle. If you need empty drums for waste, call LF Maintenance Dispatch, 28575.

2. Before filling any container with waste, be sure that a Hazardous Waste Accumulation label is on it. Fill in the accumulation start date (the day you start filling the container) and describe what is inside. For labels, call LF Maintenance Dispatch, 28575.

3. Do not fill containers to more than four inches from the top to prevent injury from possible expansion of the waste when the container is opened.

4. For container removal, call LF Maintenance Dispatch, 28575, as soon as the container is full or after sixty days have passed from the accumulation start date.

5. For more information, call Jackie Sparrey, 26215.

LF Educational Services Moves

The LF Educational Services office has moved from building 16 to building 1, column B-24. Office hours are 9:00 to 11:00 a.m. on Mondays and Wednesdays and 2:00 to 3:30 p.m. on Tuesdays and Thursdays. The telephone number is 22362. Ask for Helen Hardy.

Operations Supervisor Training

A comprehensive and tailor-made training program for all Operations supervisors began January 14. After almost a year of preparation, the program will meet the specific training needs of the Operations supervisory force.

Operations supervisors were surveyed last year to identify the areas they felt should be covered in the training program. Out of this needs assessment came a two-part program. The first part covers leadership skills, communications, personal development, team building, employee evaluations, problem solving, and decision making. The second part is an intensive, hands-on series of sessions covering Convair's manufacturing control systems including engineering systems, material control, procurement, material stores, manufacturing engineering, and financial controls.

For more information, call Tom Crow, 39950 (Management Development), or Dick Neal, 26372 (Operations).

Convair Night at Disneyland
8:00 p.m. to 1:00 a.m.
Saturday, February 23
\$8 per person (children under 2 free)
Round-trip bus tickets are \$9.50 each



Alan Hoshor, a senior quality engineer in Department 310, was named Quality Assurance Employee of the Month for December for his important contributions to DARTS Technology (Development Arts for Real-Time Systems), a software product developed over the last five years by General Dynamics. In his work, Alan has advanced the progress of artificial intelligence, specifically, harnessing the power of computers to improve the quality of engineering drawings by developing programs to perform checking functions. Presenting the award for Rudy Molina, director - Quality Assurance, was Mark Frazier (left), assistant director - Procurement Quality Assurance and Procurement Quality Audit, and Frank Feher (right), chief - Quality Engineering.

Employment

For the week ending January 25, employment was 11,944.

CONVAIR **Weekly Log***Published by the Convair Division of General Dynamics*

Western Test Range Celebrates Atlas 25th. To mark the 25th anniversary of the first launch of Atlas from Vandenberg Air Force Base, General Dynamics hosted an open house for employees, families, associates, and Air Force personnel on January 26, complete with tours, balloons, hot dogs, and free posters to commemorate the event. Over 300 people enjoyed tours of the Western Test Range buildings and Space Launch Complex 3.

Cost Reduction Makes Us Stronger, More Competitive



Many employees make significant contributions in the area of cost reduction. Some exceptional, recent awards demonstrate how both individuals and teams can come up with good ideas.

Thanks to Boyd Tullis, Data Management is much more efficient. By implementing an automated data base computer system, Boyd streamlined his department's method of keeping records on suppliers and saved over \$292,400. Boyd (photo above, center) was congratulated on his award by Bill Frank, Systems Engi-

neering cost reduction coordinator, and Dave Longwell, supervisor - SLCM Data Management.

An Advanced Programs team studying a vendor-purchased sensor was recently honored for a cost reduction of \$18 million. Recommendations made by Steve Ashbarry, Engineering, Charles Clements and Nick Kosmas, Procurement, Bill Weston, Avionics Test, and Dennis Laue, Program Office, provided the vendor with cost-saving manufacturing techniques.

Infonet Center Open House

Data Systems Division - Western Center Infonet Computer Center has moved from Kearny Mesa building 4 to trailer C between Convair building 5 and Electronics Division building 33. The Infonet group is having an open house February 18 through 22 from 8:00 a.m. to 3:00 p.m. The open house is an opportunity for employees who use Infonet services to get acquainted with the new location and the personal computers available for use in the work place.

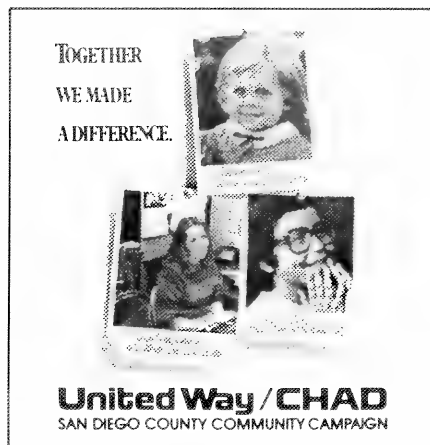
General Dynamics Makes Record United Way/CHAD Pledge

The Convair Con-Trib Board of Directors announced that the 1985 United Way/CHAD pledge of \$850,000 will be the largest contribution from a single employer in San Diego history. The overall United Way pledge by General Dynamics DatagraphiX, Electronics Division, DSD - Western Center, Convair Division, and their respective Con-Trib clubs is \$1,337,000. The pledge was made public before Christmas after the conclusion of the annual Con-Trib drive here at Convair last fall.

The Convair Con-Trib Club was organized thirty years ago to oversee charitable contributions made through payroll deduction. Each year, our Con-Trib Club makes a pledge to United Way/CHAD and supports other agencies' requests as approved by the board. The Convair Con-Trib Club board is made up of employees representing the various bargaining units and a cross-section of salaried employees.

Our 1984 campaign goal of \$1,000,000 was achieved during the past campaign. This is a reflection of the the generosity and community concern of a great number of Convair people. The board is now acting on requests for donations as well as processing payments on our 1985 pledge to United Way/CHAD.

From the Convair Con-Trib Board, thanks to all of you who participated during 1984 and who continue to support the community's needs through donations in 1985.



Convair Community Involvement



Virginia Szatkowski, an engineer in the Space Guidance and Control group, has been busy speaking to various community groups. As a member of the Society of Women Engineers (SWE), she's particularly interested in encouraging young people, especially young women, to consider careers in engineering. Last fall, Virginia took part in a presentation at National University during Women's Opportunity Week and participated in a SWE-sponsored panel at the Tierrasanta library on women in engineering. In December, she spoke on engineering careers to a group of Explorer Scouts, a group comprised of both young men and women, at Mt. Carmel High School. Her active participation in SWE means more involvement in upcoming community events. She remains active here at Convair talking regularly with college recruits and co-op students. If you'd like information about SWE, call Virginia at 35037.

If you are involved in community work or know a coworker who is, please share it with the Weekly Log. Call editor Julie Andrews at 39955. We'd like to know about our Convair community ambassadors.

Remember These Visitor Control Tips

As business activity increases, incoming visitor activity multiplies. It's a good time to remember that entry into any division facility or work area is authorized only under strict controls. The rules governing incoming visitors are there to make sure classified information and company-private information is protected from unauthorized disclosure. Here's how you can help:

- Make sure that all visitors are escorted as required.
- Challenge anyone in your area not wearing a badge.
- Determine "need to know" before disclosing ANY information.

Convair Night at Disneyland 8:00 p.m. to 1:00 a.m. Saturday, February 23 \$8 per person (children under 2 free) Round-trip bus tickets are \$9.50

For questions on tickets on Convair Night at Disneyland, call Jody Manuel, 28142.

Contact	Bldg./Col.	Ext.
Lindbergh Field		
CRA Office (MWF only)		28317
Wanda Voyce	1,1st fl.	28650
Marge Brown	3, Q-10	28049
Donna Sisk	4,D-41	28503
Charlene Beck	4,D-41	28091
Susan Tettenburn	33	28084
Vivian Scroggins	53	28058
Plant 19		
Ruth Lindsay	2,E-18	25930
Kearny Mesa		
CRA Clubhouse		39933
Shirley Nowlin	3,C-9	34918
Evelyn Nevarez	5,K-9	34420
Jackie Williams	25,C-8	33103
Seville Plaza		
Mary Ann Kasza		63200

April Is Just Around the Corner

Starting today, February 11, state and federal tax forms will be available at Kearny Mesa in the lobby of building 2 and at Lindbergh Field in the Employee Benefits office in building 16. We have been provided with the worksheets only, not the instruction booklets. If you need assistance or a booklet, call the Internal Revenue Service toll-free: 1-800-852-5711.

University of Redlands Information

There will be a short presentation on the University of Redlands degree programs Tuesday, February 12, at 4:30 p.m. in mockup conference room A, building 5, Kearny Mesa (southwest corner). Wednesday, February 13, the same presentation will be given at the building 14 auditorium at Lindbergh Field beginning at 4:00 p.m.



Diverse Team Honored for Advanced Programs Award Fee Win. This group was presented with EXCEL awards by Bill Vega, vice president - Advanced Programs (far left), for their exceptional contributions to an Advanced Programs award fee win. The team consists of people from Reliability Engineering, Integrated Logistic Support, Software Engineering, Signature Technology, Quality Assurance, Test Configuration Management, Operations, and Forecasting.

NMACC Opportunities

Technology for Non-Engineers. The fourth program in the continuing Shuttle/Centaur series is scheduled for Wednesday, February 13, at 4:45 p.m. in the Kearny Mesa building 2 presentation room. Engineers Fred Kuenzel and Ken Nauta will describe the Shuttle/Centaur guidance and navigation systems. Registration now exceeds 100 people for this informative look at engineering disciplines geared toward non-technical people. First-time attendees: call Kathy at 39272 for a reservation.

Tour. Saturday, February 16, NMACC-sponsored tour of the Wild Animal Park. Call Darlene, 49293, for reservations and information.

How Cold Is it This Winter?

According to our Energy Conservation department, this is one of the coldest winters in San Diego history. You can help our energy conservation efforts by keeping an eye on doors and windows during the heating season. Doors and windows left open — especially large vehicle doors in the manufacturing buildings — account for the biggest heat waste. Do your part to keep our buildings warm and comfortable, and make sure doors and windows are closed in your work area.

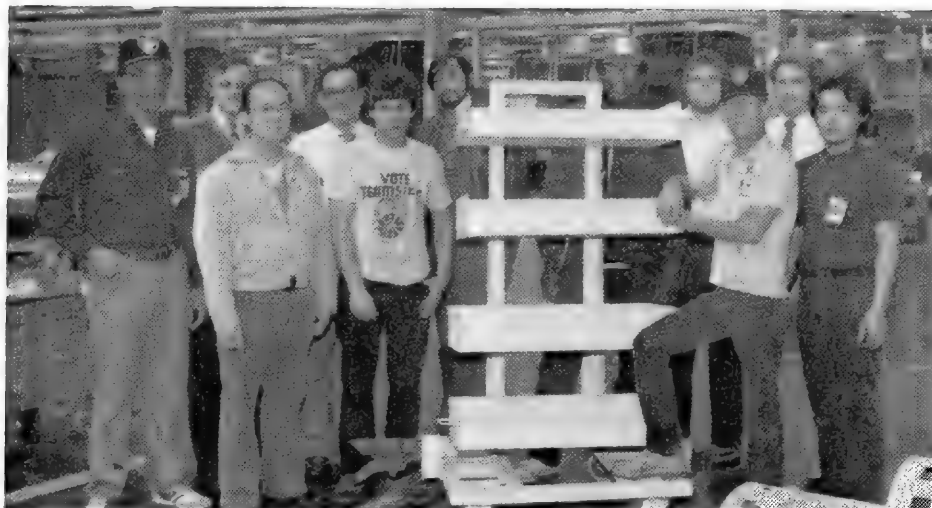
Employment

For the week ending February 1, employment was 11,934.

CONVAIR Weekly Log

Published by the Convair Division of General Dynamics

Quality Circle Completes Successful Project



The Convair Chargers, a Quality Circle in the Machine Shop at Lindbergh Field, has a successful presentation to management under their belts. Their proposal to establish satellite storage areas for packaging and wrapping materials in the machine shop work areas and to modify panracks for added safety and convenience was accepted by Ken Lake, division vice president - Operations, and Jack Coffman, director - Fabrication and Tooling. Further, Operations management is considering making the panracks standard equipment throughout the production areas. Members of the circle showed off one of the modified panracks last week. Left to right: Hank Cunningham, Dean Weelborg, Chat Leptpaichaiyon, Jim Faulkner, Mike Vuckovich, Walter Neal, Fred Todd, Butch Hoffman, Don Allen, Brian Stevens, and Al Preclaro. Circle members not present: Carolyn Browne, Dennis Martin, and Frank Tajeron.

Energy Conservation: It's A Hot Project!

Everyone complains about the high cost of energy when they pay their monthly electric bills. Consider Convair's total 1984 energy bill: \$18.6 million! Furthermore, on the first day of business this year, we faced a 7.7% increase in our electrical rates, already the highest industrial rates in the nation.

Convair's Energy Conservation team is charged with finding ways to operate with minimum energy consumption. Through their efforts last year we reduced our overall energy consumption by 16%. The goal is to improve that performance in 1985 by at least another 5%.

The biggest energy-saving event last year was the construction of a 2.7 megawatt cogeneration plant at Lindbergh Field that will provide 1/3 of the electricity and all the steam at that location. Other energy-saving activities helped too.

- Replacing fluorescent lighting with third-generation energy-saving tubes.

- Expanding the energy control system at Lindbergh Field to include lighting, heating, and air conditioning in buildings 5 and 51.
- Installing automatic controls on overhead heaters in buildings 2, 3, and 4 at Lindbergh Field.
- Installing electronic boiler combustion panels to get maximum efficiency from the Kearny Mesa central heating plant.

Simple actions by all of us can also help in reaching the 1985 energy-saving goals, for example, scheduling electrical consumption outside of on-peak hours. Division Notice 85-5 contains a chart showing those hours. Turning off unnecessary lights, keeping doors and windows closed, turning off lights and equipment at the beginning of breaks or at the end of a shift — these can all make a big difference if everyone practices good energy-saving habits.

11th Consecutive Year We Earn Safety Award

General Manager John McSweeney announced last week that Convair employees have earned a General Dynamics Certificate of Achievement for Excellent Safety Performance for 1984. This award is given to each division that compiles a safety record significantly better than the national average for similar industries and for conducting an active and comprehensive loss control program that meets or exceeds corporate standards. This is an unprecedented eleventh consecutive year that Convair has received corporate recognition for safety performance. McSweeney expressed congratulations to the entire Convair team for this outstanding performance and our continued commitment to safety awareness in 1985.

December Retirees

Convair's thanks and wishes for a happy retirement go to these employees who retired at the end of 1984.

Name/Department	Years of Service
Mary C. Barnes 135-2 Sr. Management Clerk	31
James E. Beebe 264-0 Sr. Technical Illustrator	32
Miriam S. Bock, Jr. 473-0 Manufacturing Engineer	35
Lester J. Campbell 979-1 Sr. Launch Services Mechanic	27
Robert Davis 250-5 Crane Rigger	34
Aniceto T. DeCasas 015-0 Production Grinder Machinist	29
Edward Duzak 342-0 Process Inspector	23
Lester W. Finlay 036-0 Mfg. Operations Supervisor	34
Alfred R. Flores 028-0 Plastics Mechanic	30
Jeannine Forbes 233-0 Stockroom Records Clerk	28
Leland D. Fouche 361-0 Sr. Quality Assur. Specialist	43
Lester H. Fry 350-0 C.M. Final Assembly Inspector	29
Richard E. Gillson 686-0 Engineer	29
John R. Hagerman 666-0 Engineering Specialist	6
Clinton L. Harger 239-2 Manufacturing Dispatcher	33
Sarah E. Hasha 151-0 Secretary	27

Vew (Jim) Hicks	
985-1 Sr. Launch Services Mechanic . . .	29
Betty M. Holloway	
049-0 Aircraft Assembler	11
Robert W. Imhof	
131-6 Guard	28
Kenneth Johnson	
133-1 Sr. Industrial Relations Rep	15
Herman E. Jones, Jr.	
015-0 Production Grinder Machinist . . .	37
Earl B. Kelley	
979-1 Sr. Launch Services Mechanic . . .	27
Charles A. Lab	
675-0 Group Leader	31
Jack I. Laird	
237-0 Stockroom Requisition Analyst . .	34
Ernest O. Lapanne	
015-0 Milling Machine Machinist	29
Bert E. Lee, Jr.	
111-0 Sr. Estimating Specialist	32
Harold C. Leoncini	
031-0 Group Leader	31
Jack Y. Martin	
253-3 Operations Supervisor	33
Joe Martin	
465-0 Sr. Tool Designer	37
Henry E. Naish	
015-0 Instrumentation Machinist	31
Delphine R. O'Neill	
221-5 Blueprint Control Clerk	26
Thomas R. Packer	
268-0 Logistic Supp. Parts Analyst . . .	37
Joseph F. Pearl	
031-0 Mockup Mechanic	36
Paul Perrero	
015-0 Production Grinder Machinist . .	38
Worth Porter	
455-0 Jig & Fixtures Tool Processor . .	33
Eva B. Pyburn	
234-0 Production Audit Analyst	25
Norman Ritchie, Jr.	
979-1 Sr. Engineer	29
Colonel E. Roach, Jr.	
761-0 Missile Mechanic	42
Morton M. Sherman	
650-0 Config. Management Supervisor .	33
Lawson Spurgeon	
960-0 Field Serv. Maint. Assistant . . .	35
Otis R. Thompson	
131-7 Guard	32
Harry E. Vlachos	
363-0 Quality Assurance Supervisor . .	35
Alfred R. Wallace	
268-0 Logistic Supp. Parts Analyst . . .	31
Dean F. Waring, Jr.	
979-1 Sr. Launch Serv Mechanic	27
Jacob D. Watson	
046-0 Aircraft Assembler	35
Elmer Wilson	
461-0 Tool Control Dispatcher	28
Dale R. Winkler	
001-0 Aluminum Heat Treater	35
John J. Wolfer	
046-0 Aircraft Assembler	23

'Bonus Month' Coming

The Third Edition of Convair's highly successful Great Talent Search is winding down and will come to a close on March 31. Before that date, prizes over and above the regular GTS awards could be yours during Bonus Month, March 4 through 31. During Bonus Month, merchandise awards from the Garnet Collection will be awarded to employees for all qualified re-

Here are several important telephone numbers. They are the numbers for the Equal Employment Opportunity (EEO) offices at Convair:

KM: 39940

LF: 28919

General Dynamics is strongly committed to the most positive work environment possible. Every Convair employee has the right to be treated with respect and dignity and to be free from harassment of a sexual or racial nature, either verbal or written. If you have questions concerning what is meant by harassment, please call either EEO office. And if you have knowledge of violations of Convair's EEO policy, report it to the EEO offices immediately.

Savings and Stock Plan Values for December

	1982	1983	1984
Salaried			
Government Bonds	\$ 3.3649	\$ 3.6347	\$ 4.0048
Diversified Portfolio	2.5504	3.1851	3.2965
Fixed Income	1.4313	1.6043	1.8051
Hourly			
Government Bonds	3.3630	3.6332	4.0022
Diversified Portfolio	2.6045	3.2500	3.3412
GD Stock	\$33.0000	\$58.1250	\$69.5000

errals they submit along with a resume or application. If you submit a referral during Bonus Month, you will also automatically be entered in a drawing for four valuable prizes. Check out the Great Talent Search displays around the plant this week. Call Professional Staffing, 39500, if you have questions.

Opportunities from the NMA

Conversations with Management is a series of sessions each conducted by a division staff member, who presents a brief summary of the structure and function of his organization and its overall relationship to the division. A question-and-answer period follows the presentation.

March 14: General Manager John McSweeney

March 21: Art Veitch, division vice president - Contracts & Estimating

March 28: Chuck Bohle, division vice president - Finance.

Sessions are held in the building 2 presentation room at Kearny Mesa starting at 4:30 p.m. Register with Bob Clemens, 27279.

Matters of Security

Division management places the highest faith in the good conduct of all employees. However, with almost 12,000 employees, illegal or suspicious activity surfaces from time to time within the plant. The Security and Investigations department appreciates the assistance of employees in identifying any individuals involved in suspicious or possible illegal activities such as theft, illegal use or sale of drugs, deliberate damaging of parts, unauthorized use of alcohol, or any other detrimental conduct.

Employees can convey information of this kind to Security by calling 38171. You do not have to identify yourself, but if you do it will be held in the strictest confidence. You can also report theft or vandalism by completing a report form found at the gates or guard headquarters. Cooperating with Security in this manner will assist in assuring the operation of our business in a secure and harmonious environment.

Travel Fantasies?

Seoul, Tokyo, Hong Kong, Bangkok, Beijing...Tel Aviv, Jerusalem, Athens, Cairo...Your fantasy about visiting one of these exotic places could become a reality with the special travel programs available to employees, families, and friends of General Dynamics. Preview the tours by attending a presentation at the Convair Recreation Association park pavilion on Thursday, March 7, starting at 4:30 p.m. Ask Mr. Foster Travel Agency and General Dynamics representatives will share first-hand experiences about both tours:

Window to the Eastern Mediterranean

Israel plus Athens and Greek Islands Cruise or Israel plus Cairo and Nile River Cruise.

Window to the Orient

Korea plus Japan and Hong Kong.
Korea plus Thailand and Hong Kong.
Korea plus People's Republic of China and Hong Kong.

Employment

For the week ending February 15, employment was 11,986.

CONVAIR

Weekly Log

*Published by the Convair Division of General Dynamics***Atlas Dedicated
as Engineering Landmark**

For many years, General Dynamics employees at Kearny Mesa locations have started and ended their day by driving past the 75-foot Atlas missile that stands at the entrance to our recreation park. On March 1, the American Society of Mechanical Engineers formally dedicated the Atlas as a historic mechanical engineering landmark in ceremonies attended by ASME officials, Convair employees and retirees, and members of the military community.

Among those who took part in the ceremony were Mort Rosenbaum, retired Convair engineer who was Atlas project engineer and later chief engineer; Grant Hansen, former general manager; Convair General Manager John McSweeney; Bill Rector, division vice president - Space Station Program; Richard Rosenberg, ASME fellow; John Rodosevich, ASME San Diego Section chairman; and George Kotnick, ASME national chairman.

Atlas 2E was originally assembled at the Kearny Mesa plant and sold to the Air Force in 1960, which used it as a test missile to provide data on actual countdown and engine system static firings. Over the months that followed, it became the most tested of all Atlas ICBMs, registering some 1,480 seconds of static test firings.

Atlas 2E was returned to General Dynamics by the Air Force and was erected at Missile Park in 1963 as a tribute to the people whose efforts gave the Free World its first intercontinental ballistic missile.

The Atlas E series, deployed in hardened sites and underground silos, was deactivated as a weapon system in 1965, but Atlas went on to a giant role as the workhorse of the United States space program, launching satellites, space probes, and manned spacecraft for nearly three decades. Today, with its Centaur mate, it continues to play a prominent part in the nation's space program.

ASME's dedication plaque states:

"The basic concepts of the total Atlas system, developed as the Free World's first ICBM, were proven by the pioneer Atlas flight on June 11, 1957. The Atlas family evolved rapidly into the highly successful space booster of today. Nearly 500 launches to date have included the first communications satellite (1958), the first American in orbit (1962), and a wide variety of earth orbital and interplanetary missions which together greatly advance our knowledge of the universe."

ASME's national landmark program seeks to recognize our rich technological heritage and encourages the preservation of historically important works. Atlas is the 100th Historical Mechanical Engineering Landmark to be named since the program began in 1971.



On behalf of General Dynamics employees and retirees, General Manager John McSweeney proudly accepts the plaque presented by George Kotnick, ASME National Chairman, at the dedication of Atlas as the 100th Historic Mechanical Engineering Landmark.

To: All Employees

Subject: Pentagon Action to Halt Payments to General Dynamics

Recent news media reports cite action taken by Secretary of Defense Caspar Weinberger to withhold payments to General Dynamics Corporation. This action by the Defense Department is directed at withholding general and administrative expenses billed to the government. The general and administrative portion of General Dynamics' billings to the government for reimbursement represents approximately eight percent of the total monthly billings to the U.S. government.

General and administrative payments will be withheld by the government for 30 days while the Pentagon completes its review of bills previously submitted. General Dynamics is cooperating with the Pentagon's review and is responding to all requests for detailed information. The corporation believes that it will be able to satisfy the Defense Department's concerns regarding the validity of its billing procedure, and will immediately withdraw any billings that are determined not to be bona fide.

This action by the Defense Department does not impact production or the workforce at Convair Division.

John McSweeney
John McSweeney

**Be a Winner in
Great Talent Search Bonus Month**

You could be a winner like these Convair employees: *Kenneth Adelson* (Dept. 631), *Robert Anderson* (151), *Donald Becher* (262), *Ben Bodnieks* (652), *Frank Chabza* (648), *Richard Couris* (691-1), *Stephen Gates* (648), *Bob Good* (122), *Jeanne Hoss* (135), *Rick Jones* (241-4), *Terry Lommer* (030), *Mike Lutich* (820), *Kim Morales* (330), *Jerome Parmer* (107), *Phil Raney* (427), and *John Tsirimokos* (614). They all won merchandise awards by referring people to Convair through the Great Talent Search! Three weeks remain in Bonus Month, March 4 through 31. If you'd like to know what you can win during Bonus Month, look for the posters throughout the plant or pick up a flyer at the GTS displays. Or call Professional Staffing, 39500, for more information.

More January Retirees

Convair's thanks and best wishes for a happy retirement go to these people who began their new year with retirement.

Continued from last week.

Roma L. Knapp (332)	
Inspector - Quality Control	37
Wilbur H. Knobloch (613)	
Engineering Specialist	8
George C. Kurtz (015)	
Jig Borer - Machinist	2
Stephen D. Losch (985-2)	
Sr. Program Control Specialist	25
Walter S. Ludlow IV (675)	
Design Drafter	29
Mary M. Madrid (835-1)	
Parts Release Analyst	32
Charles R. Maikish (632)	
Sr. Engineer	31
Robert Miranda (253-3)	
Engineering Specialist	30
Albert R. Mooney, Jr. (047)	
Group Leader	41
Merrill W. Nelson (015)	
Milling Machine Machinist	31
Carl P. Olsen (437)	
Sr. T&O Planner	31
Emma Packard (655)	
Repro Release Control Clerk	25
Fred J. Pfeffer (451)	
Template L/O Coordinator	17
Roy P. Poston (645)	
Manager - Engineering Support	33
Virginia T. Reed (241-4)	
Teletypist	21
Stephen Rivas (049)	
Aircraft Assembler	43
George J. Rogers (431)	
Sr. T&O Planner	14
Laura P. Rose (224-8)	
Product Order Clerk	36
Russell L. Schneider (979-1)	
Sr. Launch Services Mechanic	28
Lawrence R. Schultek (607)	
Sr. Engineer	29
Dennis M. Sealy (612)	
Engineering Chief	27
Truett D. Shipley, Jr. (117-5)	
Sr. Project Engineer	29
Jerry H. Slovacek (404)	
Engineering Illustrator	40
Chique E. Stieringer (241)	
Engineer	36
Richard H. Stohr (633-6)	
Materials & Process Analyst	23
Frank J. Vigliaturo (042)	
Aircraft Assembler	42
Silmon J. Webster (235-1)	
Supervisor - Mfg. Control	41
Richard S. Wentink (689)	
Engineering Specialist	33
Euril F. Wharton (820-1)	
Material Project Engineer	5
Charles G. Woodward (626)	
Sr. Engineer	34
Dale L. Young (015)	
Group Leader	32

Aviation Ball: A Benefit For Aerospace History

Convair's heritage is closely tied to aviation history. Over the years, we have contributed to many of the aircraft, which the San Diego Aero-Space Museum and the International Aerospace Hall of Fame are

now trying to preserve. To benefit that effort, the Aviation Fraternities of Southern California are sponsoring a fund-raising Aviation Ball.

Twenty-one aviation groups comprise the fraternity, including the American Institute of Aeronautics and Astronautics, the Air Force Association, Consairway, the Flying Tigers, and the Liberator Club. The fraternity is extending a special invitation to the Aviation Ball to Convair employees since many have close ties to San Diego's aviation history. Join the Aviation Fraternities on Saturday, March 16, beginning at 6:00 p.m. for dinner and dancing at the Holiday Inn Embarcadero. Tickets are \$25 per person and may be purchased at either the San Diego Aero-Space Museum or the International Aerospace Hall of Fame in Balboa Park.



Elizabeth C. Johnson, a technician in the Avionics Automatic Test Equipment department, earned a \$2,459 Employee Suggestion award for devising an ingenious inspection aid that enables an inspector to observe a particularly hard-to-see area on a PC board. Bill Weston, manager - Automatic Test Equipment, presented Elizabeth with her check and award.

Important Reminder for TSR Users

Convair's Integrated Management System's TSR (Task Status Reporting) has been converted from a weekly batch report to a real-time, on-line system. TSR is a tool used by Convair management to schedule, track, and report status on in-house design and manufacturing tasks. People who are designated by their department to be responsible for inputting activity to the TSR system will now be required to have an IMS log-on identification. To obtain the identification, please contact Fred Melendrez, TSR coordinator, 35084.

Educational Opportunities From the NMACC

Technology for Non-Engineers. The fifth program in the continuing Shuttle/Centaur series is scheduled for Wednesday, March 13, at 4:45 p.m. in the Kearny

Mesa employee dining room. Engineers John Karas and Roy Roberts will describe the Shuttle/Centaur avionic systems. Registration now exceeds 100 people for this informative look at engineering disciplines geared toward non-technical people. First time attendees: call Debbie at 39458 for a reservation.

El Cajon to KM Vanpool Openings

Convair's vanpool servicing the 7:30 a.m. to 4:15 p.m. shift has two openings for employees who commute to KM from East El Cajon, Parkway Plaza, and Grossmont. Call Carl Wannamaker, 49093, for information.

Join Your Coworkers Lend an Arm

**Convair & Western Center Blood Drive
April 1 - 5**

**New "San Diego" T-shirts
will be given to all donors**

Reservation details next week

McSweeney Leads Next Conversations Presentation

Note: New Date for First Session.

General Manager John McSweeney will kick off the 1985 NMACC Conversations with Management series on Thursday, March 28, in the building 2 presentation room at Kearny Mesa starting at 4:30 p.m. (The date has been changed from Thursday, March 14.) This session is open to all employees at no cost. It's an excellent way to hear about the division's present programs and future business opportunities from our top management. A question-and-answer session follows the formal presentation. Register with Bob Clemens, 27279.

From the Health-Fitness Center

Workout. March 11, 4:30 to 5:30 p.m. CRA auditorium.

Back in Action. Free, practical presentation, March 12, 4:45 to 6:00 p.m. CRA pavilion.

Tax Preparation. Seminar by IDS American Express, March 14, 4:45 to 6:00 p.m., CRA room B.

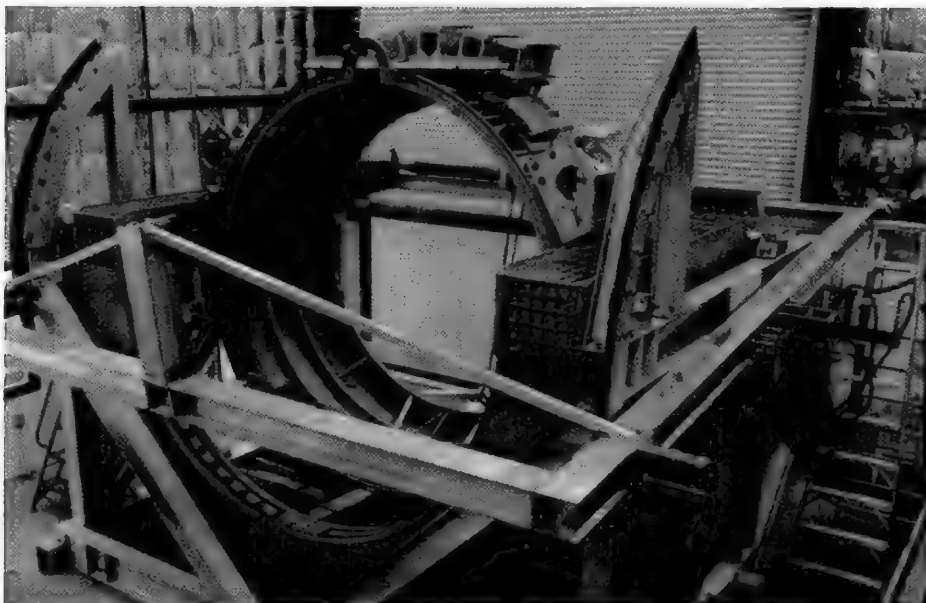
Dress for Success. Presented by Casual Corner, March 20, 11:30 a.m. and 4:45 p.m., CRA pavilion.

Employment

For the week ending March 1, employment was 11,993.

CONVAIR Weekly Log

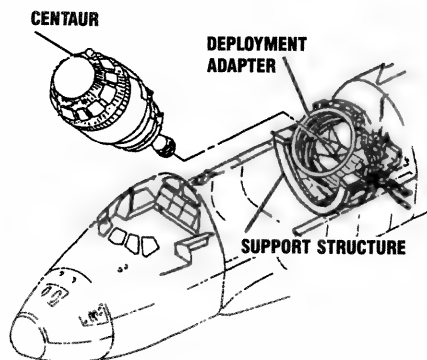
Published by the Convair Division of General Dynamics



The Convair-built Centaur Integrated Support System will be installed inside the Shuttle Orbiter's payload bay. It is designed to rotate the Centaur upper stage and its spacecraft up and out of the Shuttle. When the Shuttle is a safe distance from the payload, Centaur ignites to send the spacecraft on its mission.

Shuttle/Centaur Begins New Test

Testing of the Shuttle/Centaur rotation mechanism began last week after the first Centaur Support Structure and Deployment Adapter were removed from the Kearny Mesa fabrication area and placed in a special test fixture in building 75. This phase of testing will verify the capability of the rotation system to place Centaur in the deployment position after the system is installed in the payload bay of the Space Shuttle. Testing will continue until April, when the elements will be returned to the final assembly area for mechanical and electrical system hardware installation.



CENTAUR INTEGRATED SUPPORT SYSTEM

Security Tip

Our Defense Investigative Service (DIS) security inspection is scheduled to start today. Remember: our goal is zero deficiencies.

- Check your security locks to ensure combinations have been changed as required.
- Open the bottom drawer of your security cabinet to see if it has an enclosed bottom. If it doesn't, transfer classified material to an approved container that has an enclosed bottom.
- Keep your security container locked at all times when not in use. If the container is in use, make sure you are in a position to observe anyone who approaches. When the container is open, make sure you have secured the lock to an immovable object.
- Know the DoD reporting requirements, which can be found on page 8 of the Security Handbook.
- Review the procedures covered in the Security Handbook. Keep it handy at your work station.
- DIS representatives may ask cleared employees questions concerning security procedures; be prepared to answer them.

Reminder to Salaried Employees New Optional Life Insurance Plan Available

Brochures and enrollment cards explaining the new life insurance plan were mailed in February to all salaried employees. For those who may not have examined the brochure, Employee Benefits points out that the primary advantage of the new life insurance plan is the survivor benefit feature, not available before. Open enrollment for the plan has been extended to Wednesday, April 3. The first payroll deduction for those who elect to take the plan will be on the April 12 paycheck. Brochures, enrollment cards, and additional information are available from both Employee Benefits offices, or call 39914.

What's New in Communication? Introducing: Teleconferencing

A new teleconferencing facility is now operational at the Kearny Mesa plant. The facility uses a freeze-frame video and audio hookup to connect meetings between Convair and remote sites. This technology, which General Dynamics is implementing throughout the corporation, provides an excellent communication tool that saves travel time and allows greater meeting participation.



Sam Long demonstrates Convair's new teleconferencing capabilities.

The system includes a video camera that records a visual in color or black and white (document, drawing, viewgraph, photo, or small component), "freezes" the image, then transmits it to other on-line meeting sites. With a special pen, a meeting participant can make notes on the screen. Those visuals are transmitted in real time to all on-line locations. Up to 200 images can be preloaded on a hard disk and displayed during meetings. The image file can also be offloaded to magnetic tape for protection and reloaded for a later meeting.

Obviously, this capability is ideal for engineers and technicians who need to dis-

play and discuss drawings or documents with people at remote sites. But the system can be used in many other ways. Department supervisors who want information about teleconferencing applications should call Sam Long, 35333, who will arrange for a demonstration of the facility.

Sites currently on line with Convair are the corporate office, Fort Worth Division, and NASA/Cleveland. Plans are in the works to link all divisions, as well as key suppliers and military bases.

It's Another Successful Launch For Atlas at Western Test Range

Atlas 41E successfully launched a Navy Geosat spacecraft into circular orbit on March 12 from Vandenberg Air Force Base, California. This is the first and only Geosat scheduled to be launched by an Atlas booster. Geosat carries a radar altimeter to measure precise ocean surface heights, from which measurements of the earth's surface and oceanographic features can be determined.

Atlas 41E was originally manufactured by Convair Division as an operational weapons system and delivered to the Air Force in 1961. After serving in operational status and storage through 1980, Atlas 41E was modified, refurbished, and delivered to the Air Force in 1984. The latest launch leaves 13 of the original Atlas E- and F-series fleet vehicles to be launched; all have been assigned specific payloads.

Congratulations to the Atlas E team and Convair Western Test Range personnel at Vandenberg AFB.

From the NMACC

Note: New Date for First Session.

General Manager John McSweeney will kick off the 1985 NMACC Convairsations with Management series on Thursday, March 28, in the building 2 presentation room at Kearny Mesa starting at 4:30 p.m. (The date has been changed from Thursday, March 14.) This session is open to all employees at no cost. It's an excellent way to hear about the division's present programs and future business opportunities from our top management. A question-and-answer session follows the formal presentation. Register with Bob Clemens, 27279.

Developing Employee Performance.

First-line Supervisor Course 5. Starts March 21 in Lindbergh Field building 1 Accounting conference room (col. J-9). Facilitator: Bill Roberson, 27203.

Tour. Guided tour of the La Jolla Cancer Research Foundation, Wednesday, March 20, 5:00 p.m. Call Darlene Conway for details and information, 33618.

Make a Reservation For April Blood Drive

Call today to reserve time to donate blood during the Convair and Western Center blood drive. All employees benefit from the Convair Reserve Fund by either a reduced processing fee or no fee at all, depending on your insurance coverage. There is never a charge for the use of units of blood for any employee or dependent family members. It is not necessary to donate blood to draw from the Convair Reserve Fund.

The San Diego Blood Bank is the only source for all 30 San Diego County hospitals, and donations of 300 pints a day are required to meet the community's need. Our drives are given top priority.

Make your reservation to donate early and receive your "San Diego" T-shirt. Call today for an appointment.

Kearny Mesa

- Call 33820 for an appointment
- April 1 and 2, 8:00 a.m. to 1:00 p.m.

Lindbergh Field

- Call 28244 for an appointment
- April 3 and 4, 8:00 a.m. to 1:00 p.m.

Plant 19

- Call 28244 for an appointment
- April 5, 8:00 a.m. to 4:45 p.m.

Sycamore Canyon

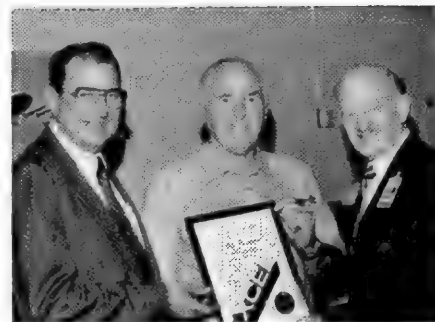
- Call 77143 for an appointment
- April 1, 8:00 a.m. to 1:00 p.m.

Be a Winner in Great Talent Search Bonus Month

Time is running out — only two weeks left for you to win valuable prizes during the Great Talent Search employee referral program Bonus Month. In addition to the awards that you can win under the existing program, during Bonus Month, March 4 — 31, you will also receive a special merchandise award for every qualified "special target position" referral you submit with an attached resume or application. You will also be entered automatically in the Bonus Month drawing for a 35mm camera, a black and white television set, a stereo system, and luggage. Watch for the display of these awards on Wednesday, March 20, at selected KM and LF locations.

GTS would like to add your name these merchandise winners: *Bernie Alvarado* (Dept. 672-1), *John Baltutis* (153), *Barbara Bennett* (614), *Dennis Brown* (312), *Tom Chitty* (979), *Jim Eberhardt* (631), *Jim Fox* (111), *Bruce Goodrich* (427), *James Horton* (624-3), *Lowell Markert* (659), *Walt Mooney* (611), *John Nordstrom* (622), *Robert Schwanhausser* (662), *Robert Strasser* (311), *Billy Tammen* (662-3), and *John Vanderslice* (614).

If you need more information, call Professional Staffing, 39500.



Herrmann Recognized with EXCEL Award.

Need a photo taken? Trying to find an old file photo? Chances are Bob Herrmann is the one who will smooth the way. Bob's a group leader in Still Photography and has been a mainstay in the department for almost 35 years. He may not know where every photo negative is filed (Convair has hundreds of thousands in the active file alone), but he'll know where to look. In February, the Procurement department presented Bob with an EXCEL award for this "can do" attitude. The award states, "On many occasions, Bob has turned the impossible request into a quality job complete in time to support our requirements." Many other Convair departments can agree, the Weekly Log included. Congratulating Bob for his award are Chuck Simmons (left), manager - Communications Services, and Bob Montague (right), supervisor - Motion Pictures & TV.

Housekeeping Hint

Housekeeping is an important part of each day at Convair. To dispose of our trash, over 100 Sani-Tainer containers at all plant locations are emptied daily between 5:00 and 6:00 in the morning. Placing the office and administrative building containers in the right spot for pickup is up to Plant Services. However, departments that have Sani-Tainers located right within their working areas (for example, production areas) are responsible for making sure their containers are placed outside on time. Place Sani-Tainer trash containers outside every day so they won't get too full.

From the Health Fitness Center

Dress for Success. Presented by Casual Corner, March 20, 11:30 a.m. and 4:45 p.m., CRA pavilion. It's free.

Fitstop. Blood pressure checks and health and fitness information. Kearny Mesa employee dining room, March 20, 11:00 a.m. to 1:00 p.m. Lindbergh Field employee dining room, March 27, 11:00 a.m. to 1:00 p.m.

For more information, call the Health Fitness Center, 39921.

Employment

For the week ending March 8, employment was 12,012.

CONVAIR Weekly Log

Published by the Convair Division of General Dynamics

Eggert Named 1984 Suggester of the Year



George Eggert, Suggester of the Year (third from left), is congratulated by Andy Falken, Jack Coffman, Ken Lake, Barbara Wildauer, and Norm Pearl.

George Eggert, a jig and fixtures builder at Plant 19, was named 1984 Suggester of the Year at a special recognition event last week hosted by Motivational Programs. Eggert's good idea earned him \$10,000 in 1984 — the maximum amount awarded under the Employee Suggestion program. He came up with a way to cut down on the quantity of costly copper used in a welding fixture on the Shuttle/Centaur.

Eggert has worked at Convair for more than 30 years and has always been an "idea man," according to his supervisor, Frank Campbell. This idea paid off not only for Eggert but for Convair as well — to the tune of \$184,000.



Fred Ehrenberg of American Airlines (left) presented the tickets for a trip to London to John Ehlers (second from left). Looking on are Ray Stevens and Ken Lake.



Roy Sanchez, fourth quarter prize winner, is congratulated on his Delta Airlines trip by Fred Swaffer, Convair Travel Services.

Eggert will also choose a merchandise award from the Diamond collection, and his name will be inscribed on a permanent plaque to be displayed at Kearny Mesa and Lindbergh Field.

More Good Idea Winners. At the same presentation, the 25 winners of special gifts in the 1984 fourth quarter drawing were honored, along with their supervisors. Roy Sanchez, KC-10 aircraft assembler, was the lucky winner of a trip to anywhere Delta Airlines flies. His name was picked from the 25 quarterly winners. The yearly grand prize for the 1984 Employee

Suggestions promotion went to John Ehlers, a liaison engineer in Department 671-2. He and his wife will enjoy a five-day trip to London, compliments of American Airlines. The day after the award, John said his wife thought he was kidding when he first told her about the trip. She became a believer when he showed her the tickets.

1984: A Good Year for Good Ideas.

Convair suggesters sent in a total of 4,703 good ideas during 1984. Those that were implemented, and therefore eligible for award, earned a total of \$234,000 for the suggesters, including three maximum awards of \$10,000. All the cost reduction ideas together totaled \$2.8 million in cost savings for Convair.

Ken Lake, division vice president — Operations, commented at the close of the award ceremony, "We must sincerely believe we have a team to be successful, and a good suggestion program is one of the best ways to do that." He thanked the winners and asked them to keep the program going by urging fellow employees to get involved.

Value Engineering Kickoff

The first value engineering workshop of 1985 got under way on March 18. For two weeks, a group of Convair employees from several functional areas will learn the principles of value engineering and how to apply them to the way they do their jobs.



The class began with remarks from General Manager John McSweeney and Captain Michael Iverson, Joint Cruise Missile Project Western Region Director. Captain Iverson added a challenge to his remarks.

—OVER—

"Value Engineering is a discipline that you can use to root out avoidable costs. This not only keeps your company in a competitive position but helps identify some of the charges that reflect negatively on the DoD and the contractor. . . The major problem you will face in the VE process is not that you won't find the fruitful project; it will probably be a series of roadblocks we face from both your organization and mine. . . Change is always an uphill battle. But hang in there! The results and your experience will be worth it.

"Finally, I would like to challenge this class with a savings goal for Tomahawk. I would like to see \$3 million in proposed Value Engineering savings. I will attend your graduation presentations and see how well you performed. You can count on my support for Value Engineering!"

Still Time for Blood Donors To Sign Up

Convair and Western Center employees can still make an appointment to donate blood next week. Active employee participation makes it possible to provide a no-charge replacement service to all employees and their eligible dependents while meeting a community need as well. "San Diego" T-shirts will be given to all donors. Call now for an appointment.

Kearny Mesa

- Call 33820 for an appointment
- April 1 and 2, 8:00 a.m. to 1:00 p.m.

Lindbergh Field

- Call 28244 for an appointment
- April 3 and 4, 8:00 a.m. to 1:00 p.m.

Plant 19

- Call 28244 for an appointment
- April 5, 8:00 a.m. to 4:45 p.m.

Sycamore Canyon

- Call 77143 for an appointment
- April 1, 8:00 a.m. to 1:00 p.m.

NMACC Professional Opportunities

Conversations with Management.

General Manager John McSweeney presents an overview of Convair's product line and division goals. Thursday, March 28, 4:30 p.m., KM building 2 presentation room. Register with Bob Clemens, 27279.

Interpersonal Skills for the Manager.

Ten-week course begins Tuesday, April 2, 4:30 to 6:30 p.m., KM building 25 Research & Engineering conference room. Facilitator: Julian Jaeger, 34385.

Face-to-Face Communication. Ten-week course begins Wednesday, April 3, 4:30 to 6:30 p.m., KM building 25 Research & Engineering conference room. Facilitator: John Paul, 35280.

Tickets are still available for the Tuesday, March 26, monthly dinner meeting of the National Management Association Convair Chapter featuring the comedy team "Moving Violations." Call these numbers for ticket information. KM: Kathy Marden, 39520 or Bob Montague, 33208. LF: Jim Samperi, 26155.

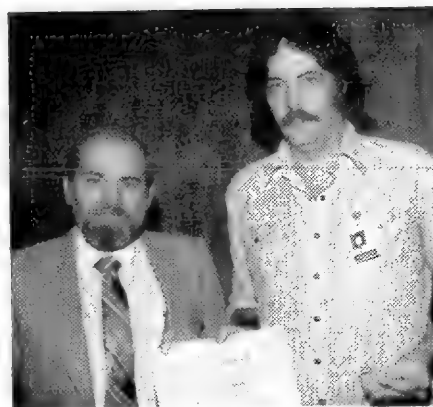


QA Recognizes Tabadisto

Ruth "Tabby" Tabadisto, a group leader in Cruise Missile Inspection, was named Employee of the Month for January by Quality Assurance. Tabby has worked at Convair for more than 26 years and, according to her supervisor, has performed superbly in several inspection jobs. Most recently, she and the cruise missile inspectors under her guidance have consistently received positive comments from Operations and Engineering management for their professionalism and skill. Thanks to Tabby for making such a positive contribution to Convair quality.

Employment

For the week ending March 15, employment was 12,019.



Machinists Earn Journeyman Certificates. Four years of work in Convair's apprenticeship program have earned Journeyman certificates for two Lindbergh Field machinists. Left: Tom Brochu is congratulated by Bruce Nameth, Operations supervisor. Right: Richard Huffman receives his certificate from Bill Dickey, manager - Machine Shop. The apprenticeship program requires 8,000 hours of combined on-the-job and classroom training as well as community college courses taken outside of working hours.

What to Know About Security Locks

The Sargent and Greenleaf combination locks used on barlock containers and the built-in combination locks found on GSA-approved safes and doors are manipulation-proof. This means that you cannot find out the combination by turning the dial and listening to the "clicks." The locks are designed that way to provide maximum protection for our classified information. The effectiveness of the locks, however, still depends on the user.

- When you lock a security container, turn the dial a minimum of three times in each direction. This clears the combination. Pull on the lock to make sure it is secure. If the combination has not been cleared, you may be able to return the dial to zero and open the lock.

- Never leave a lock open. Lock it to an immovable object; otherwise, a lock could be replaced or the combination changed by someone seeking unauthorized access.

Notice to PLFCU Members

The staff of the Point Loma Federal Credit Union is gearing up for conversion to a new computer system the weekend of March 30. All credit union offices will be closed Saturday, March 30, and Monday, April 1.

From the Health-Fitness Center

Rock A' Robics. April 1, 4:00 and 4:30 p.m. CRA room A.

Walking Workout. April 1, 11:45 a.m., CRA auditorium.

Fitstop. April 27, LF employee dining room, 11:00 a.m. to 1:00 p.m.

For more information or registration, call the CRA Health-Fitness Center, 39921.



CONVAIR Weekly Log

Published by the Convair Division of General Dynamics

Atlas/Centaur Makes Successful Launch

The latest and most powerful version of the Atlas/Centaur — Atlas G/Centaur (AC-63) — successfully launched an INTELSAT V-A communications spacecraft on March 22. Launch occurred at 6:55 p.m. eastern time from Complex 36B at Cape Canaveral, Florida.

At liftoff, AC-63 stood over 137 feet tall and weighed 360,500 pounds. The INTELSAT V-A satellite it carried is the largest and highest-capacity commercial communications spacecraft built to date, capable of relaying up to 15,000 two-way telephone calls and two color-television channels simultaneously. The spacecraft itself weighs 4,444 pounds and measures 21 feet high and 52 feet wide with its solar wings deployed.

AC-63 demonstrated a number of new performance improvements during this launch, which will keep Atlas/Centaur in the forefront of expendable launch vehicle technology. Two more INTELSAT V-A spacecraft are planned for launch by Atlas/Centaur this year.

Congratulations to the A/C team!

New Division Formed

The announcement last Friday of the formation of the Space Division is a new page in the history of spin-offs from Convair. In the past, Pomona Division, Electronics Division, and Datagraphix all resulted from division realignment.

Today Convair has programs ranging from those in the earliest research and development stages to mature production programs. In making the announcement about the division split, David S. Lewis, chairman and chief executive officer of General Dynamics emphasized the importance of managing all our programs in such a way as to meet the commitments to our customers in an efficient and timely way. The formation of a Space Division will enhance our ability to meet the challenges of the many and difficult programs in the divisions.

Space-oriented and ballistic missile systems will be "spun off" from the Convair Division and placed in a newly formed division, called the General Dynamics

Space Systems Division. Dr. Alan M. Lovelace is appointed to serve as corporate vice president and general manager of the new division.

Convair Division will continue to have responsibility for cruise missile, next generation systems, related ground systems, the KC-10/DC-10 aircraft subcontract, and all advanced design activities related to inner space systems. John E. McSweeney will continue as corporate vice president and general manager of Convair.

Naturally, there will be a period of transition. Division management places emphasis on ensuring that no program under contract is impacted.



General Manager John McSweeney presented his State of the Division address at the March meeting of the Vandenberg Chapter of the National Management Association. At the meeting, the chapter was presented with a special 25th anniversary plaque by Charles Woods, chairman of the board of NMA.

Blood Drive Begins Today

Remember your appointment!

Kearny Mesa

- Call 33820 for an appointment
- April 1 and 2, 8:00 a.m. to 1:00 p.m.

Lindbergh Field

- Call 28244 for an appointment
- April 3 and 4, 8:00 a.m. to 1:00 p.m.

Plant 19

- Call 28244 for an appointment
- April 5, 8:00 a.m. to 4:45 p.m.

Sycamore Canyon

- Call 77143 for an appointment
- April 1, 8:00 a.m. to 1:00 p.m.



Wayne Crow (center), a plant protection officer, was presented with a cash award of \$6,955 last week for a good idea he shared through the Employee Suggestions program. His cost-saving idea involved the installation of a video monitor to provide surveillance of a secured cruise missile checkout area during off-shift hours. Presenting the award were Augie Daddi, division vice president - Industrial Relations, and Bob Mueller, manager - Plant Protection and Security.

Security Says "Well Done"

The recent Defense Investigative Service inspection demonstrated an overall significant improvement in division security. Upon completion of the inspection, DIS complimented us for the increased security awareness displayed by our employees. Thanks to the teamwork between employees and the Security staff, the inspection produced good results.

February Retirees

Convair's thanks and best wishes for a happy retirement go to these employees who retired in February.

Name (Dept.)	Years of Service
Dominick Arena (001)	
Punch Press Operator	26
Anna M. Barlow (431)	
Sr. T&O Planner	36
Robert S. Barlow (679)	
Sr. Engineer	23
Francis E. Bordenkircher (041)	
Aircraft Assembler	14
Nancy J. Burgess (193-3)	
Accounting Analyst	28
Arthur G. Bursch (001)	
Special Project Mechanic	7
Clarence S. Dickerson, Jr. (640)	
Sr. Engineering Specialist	34
Milton Freeman (451)	
Group Leader	34
Theodore F. Gurbacki (235-3)	
Sr. Facilities Engineer	30
Marcell C. Hight (221-4)	
Sr. Operations System Specialist	32

—OVER—

Lawrence S. Hough (979-6)	
Engineering Specialist	26
Edwin H. Lawton (311)	
QA Engineering Specialist	33
Richard C. Leyvas (001)	
Sheet Metal Hand Finisher	25
Jean E. Michenfelder (431)	
Sr. Production Planner	30
Lewis C. Michenfelder (437)	
Sr. T&O Planner	35
Samuel Montoya (761)	
Clean Room Mechanic	37
Harry B. Nordman (015)	
Duplicating & Profiling Machinist	17
Esco J. Ogden (002)	
Production Painter	26
Milton F. Ohlman (979-4)	
Inspector	25
Richard F. O'Neill (696)	
Group Engineer	26
Ira L. Quillin (041)	
Operations Supervisor	44
Melvin L. Salefski (031)	
Instrumentation Lab Technician	43
Romer G. Sanders (460)	
Tool & Cutter Grinder Machinist	34
Ralph L. Simpson (985-1)	
Group Leader	13
Robert W. Warwick (523-2)	
Computer System Specialist	33
Ruth E. Williams (432)	
EDP Terminal Operator	28
Merle M. Wood (281-4)	
Group Leader	37



An EXCEL award for outstanding performance has been given to Susan Kessler of Engineering Support (Dept. 645). Susan is the senior instructor in Convair's computer graphics center, and her work in preparing and teaching CAD (computer-aided design) operations earned her this special recognition. Bruno Bracka, director - Structures and Design, presented her with the award.

Keyboard Proficiency Training Available

With the widespread use of computers in the workplace, there is a constant need to sharpen up typing skills. Educational Services has a self-paced keyboard proficiency course for people who never learned to touch type or for those who just want to progress beyond the two-finger system. If departments have a need for this training, supervisors should call Patrice Sanasac, 27660, or Educational Services, 39558.

Savings and Stock Plan Values for January 1985

	1983	1984	1985
Salaried			
Government Bonds	\$ 3.3840	\$ 3.6786	\$ 4.0656
Diversified Portfolio	2.6402	3.0635	3.5839
Fixed Income	1.4459	1.6206	1.8230
Hourly			
Government Bonds	3.3817	3.6768	4.0643
Diversified Portfolio	2.6948	3.1254	3.6377
GD Stock	\$38.0000	\$53.0000	\$76.5000



Co-op student officers at Convair help organize the activities of the current 47 students working here (left to right): Lillie Davis, secretary, Energy Systems CAD/CAM (Dept. 676), Southern University; Daniel De La Flora, treasurer, Labor Accounting (Dept. 193-3), University of Arizona; Terence Randall, president, Measurements Engineering and Lab Support (Dept. 363), Southern University; and Timothy Balke, vice president, Space Flight Operations (Dept. 653-3), University of Minnesota.

Co-Op Program Presents 'Co-Opportunities'

The General Dynamics co-op student program is a unique educational experience for college students that integrates classroom study with planned and supervised work through alternating periods of full-time work and full-time college enrollment.

Students who get involved with the co-op program are enthusiastic, highly motivated young men and women from all over the country. At Convair, they can be found in all functional areas, with many in Engineering.

During 1985, the College Relations department plans to have at least 125 co-op students at Convair. Right now, 47 co-ops are on board. They are gaining valuable work experience — relating classroom theories to the latest technology developments — and are exploring various specialties before making career choices.

From the perspective of Convair, the co-op program provides an early opportunity to identify the top candidates on college campuses where we recruit. The program is working because of enthusiastic support from the departments where co-ops are placed. "The co-op program," says Mike

Felix, director - Systems Analysis, "is an excellent program because it provides our own unique training ground for students before graduation, who then rejoin us already up-to-speed technically with what we do."

Mail Room Reminders

Convair's mail room personnel want to provide the most timely and efficient service possible. They handle over a hundred thousand pounds of mail per month, so their task is a big one. Use this checklist to ensure outgoing mail is being handled correctly by your department.

- ✓ Mail services are limited to company business only.
- ✓ Leave unclassified mail unsealed.
- ✓ Send parts, material, and packages other than printed material to the Shipping department.
- ✓ Don't use metal fasteners or staples to fasten envelope contents together.
- ✓ Process mail to foreign countries according to the Convair Security Manual.
- ✓ Call the mail room if you have urgent delivery requests.
- ✓ Before packaging bulky parcels, call the mail room for the appropriate postal regulations.

NMACC Professional Opportunities

Tour. San Diego Tribune, April 9, 5:00 p.m., free. Call Darlene Conway, 33618 for reservations.

NMACC Dinner Meeting. KFMB radio personalities Hudson and Bauer will be the featured speakers at the April 10 NMA Convair Chapter dinner meeting. Dinner will be served at 6:30 p.m. and the program will begin at 7:30. Tickets are \$10 for NMACC members and spouses; \$16 for nonmembers. Call Carol Fay, 39463, for table reservations. The event will be sponsored by Research & Engineering with executive host Dan Da Pra.

Employment

For the week ending March 22, employment was 12,049.

CONVAIR *Weekly Log* SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

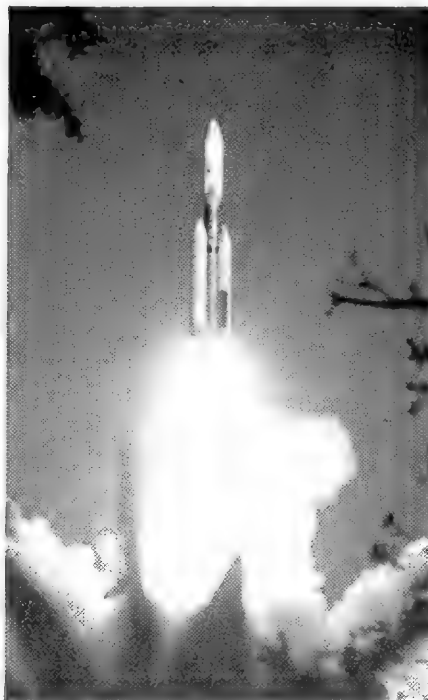
Space Systems Division

Small ICBM Program Update

On March 29, General Dynamics submitted the SICBM Assembly, Test, and Systems Support (AT&SS) proposal to the Air Force Ballistic Missile Office. This is the culmination of a 15-month weapon system concept definition program, during which time four prime contractors worked to define a Small ICBM weapon system compatible with multiple basing modes, and a planned initial operational capability in the early 1990s. The primary contract was modified in midstream to focus on the AT&SS function.

A single contractor will be selected by the Air Force in mid-June to proceed with a five-year, pre-full-scale and full-scale development program including responsibility for the post-boost vehicle and shroud designs.

The Small ICBM program is now part of the newly formed Space Systems Division. Jerry Brown is the SICBM program director.



Titan/Centaur launch from the 1970s.



Tomahawk Picnic Says Thank You For Ten In A Row. Several thousand people who work on the Convair Division Tomahawk Cruise Missile program gathered in CRA's Missile Park on March 31 for a day of fun. Hosted by Mike Keel, division vice president - Cruise Missile Program, as well as other program management, the day's festivities included games, prizes, food, and fellowship. Some of the children helped Bruce Gano, SLCM Program director, draw names for many of the prizes given away during the day. The picnic capped a period of hard work and ten consecutive successful Tomahawk launches.

Space Systems Division

Titan and Centaur Together Again

Space Systems Division has received a contract from Martin Marietta Corporation to adapt our Centaur G-Prime upper stage to their Titan booster for the Air Force Complementary Expendable Launch Vehicle (CELV) program. The Air Force recently announced selection of the Titan/Centaur as its CELV to provide a back-up capability to the Space Shuttle.

Space Systems is currently producing two Shuttle-compatible Centaurs: Centaur G-Prime for NASA and the shorter Centaur G for Department of Defense and NASA missions.

Production of the first flight article for the Air Force CELV is expected to begin early next year, with delivery scheduled for early 1988.

According to Russ Thomas, Space Systems Titan/Centaur program director, the CELV work will include production of ten Centaurs, development of a new interstage adapter to mate the Centaur to the Titan booster, and incorporation of Centaur G avionics into the G-Prime stage. Space Systems' role also includes rebuilding ground support equipment at the Eastern Test Range in Florida and supporting actual launch activities associated with the Centaur portion of the mission.

The smaller Centaur stage now used with Atlas flew atop Titan on seven missions in the 1970s. Launched from Complex 41 at ETR in Florida, Titan/Centaur sent the Helios probes to the sun, launched the Viking Mars orbiters and landers, and sent Voyager spacecraft on their way to Jupiter and Saturn flybys.

Space Systems Division

Shuttle/Centaur Completes Two Test Phases

Two more important Shuttle/Centaur milestones have been marked with the completion of two tests.

A test to demonstrate the ability of the Ulysses spacecraft to separate from the Shuttle/Centaur has been successfully performed at the General Dynamics Harbor Drive Test Facility using a structural model of the spacecraft and the mission-

—OVER—

peculiar NASA adapter combination. Low-shock explosive nuts mounted in the NASA adapter were fired, resulting in a clean separation. The MPA was returned to Kearny Mesa the first week in April for final assembly, including fluid line and harness installation. During the next two months, a series of fit checks with spacecraft hardware will be performed to ensure hardware compatibility.

Successful completion of the Deployment Adapter rotation test verified the capability of the system to rotate the Centaur spacecraft from the stowed position in the Shuttle cargo bay to 45 degrees elevation for deployment and then rotating back to the stowed position.

Testing was performed after the Centaur Support Structure and Deployment Adapter were installed in a special test fixture in building 75. Preliminary review indicates that all test results are satisfactory.



GTS Names Grand Prize Winner. Stephen Gates (Department 648-0) receives the GTS Grand Prize for referring the most people into target positions during 1984 through the Great Talent Search from Randy Simpson, director - Systems Engineering. Steve plans to redeem the Diamond merchandise certificate for a video camera. Following the presentation, Steve drew the lucky winners in the GTS Bonus Month drawing: Harry Blackwell (685-0), Hartman carry-on luggage; Herb Doughty (311-0), Soundesign stereo system; Elizabeth Gray (264-0), RCA Playmate black & white TV, and George Resch (320-0), Pentax Point & Shoot 35mm camera. Watch the Weekly Log for details of the GTS Fourth Edition.

Notice to Engineers

Dr. Jack Hoyt, San Diego State University mechanical engineering graduate advisor, will be at the Kearny Mesa plant on Friday, April 26, to talk with people interested in the M.E. program at SDSU. Handout materials and information will be available. The meeting will be held from 11:00 to 11:45 a.m. in classroom 3, building 17.

Savings and Stock Plan Values for February 1985

	1983	1984	1985
Salaried			
Government Bonds	\$ 3.4452	\$ 3.6938	\$ 4.0370
Diversified Portfolio	2.7977	2.8787	3.6723
Fixed Income	1.4584	1.6360	1.8398
Hourly			
Government Bonds	3.4427	3.6922	4.0353
Diversified Portfolio	2.8558	2.9316	3.7287
GD Stock	\$41.8750	\$48.0000	\$79.2500



Apprentice to Journeyman. Jaci Henri is awarded her journeyman certificate as a precision parts inspector by Robert Williams, chief - Quality Control. Jaci not only completed her apprenticeship requirements - a rigorous four-year program of classroom and on-the-job training - but has also completed an MBA program at National University.

From the Health-Fitness Center

Weight Loss Contest. April 18 at 5:00 p.m. By appointment.

Workout. Starts April 15 at 4:30 p.m. in the CRA auditorium.

Coping Skills for Less Stress. April 24 at 11:30-12:30 in building 1, Program Development Room (second floor).

Fit Stop. Kearny Mesa employee dining room on April 17, 11:00 a.m. to 1:00 p.m. Lindbergh Field employee dining room on April 24, 11:00 a.m. to 1:00 p.m.

Preventing Financial Stress. Lindbergh Field, April 16, 4:45 p.m., building 1, conference room A, Column J-9.

For more information, contact the CRA Health-Fitness Center, 39921.

A Word About Security Clearances

Department of Defense security clearances are requested for and granted to employees only if they have a valid need for access to classified information to perform their jobs.

DoD sometimes requires that security clearances be downgraded when an employee's need for access to classified information no longer exists. This happens when work is completed on a classified

contract and no other classified contracts are anticipated, or when an employee is transferred to an unclassified project with no need for access to classified information elsewhere.

Future Defense Investigative Service inspections will examine whether employees holding clearances really need them. If an employee has not had access to classified information for six months or more, and security clearance retention cannot be justified, supervisors are requested to notify the Security department.

From the NMACC

Upcoming Conversation Presentations. "Conversations" is a series of presentations by division staff members on the activity of their areas of responsibility.

Upcoming sessions:

April 18: Dan Da Pra, division vice president - Space Systems, Research & Engineering.

April 25: Chuck Bohle, division vice president - Finance.

Technology for Non-Engineers. Advanced Systems will present "Hypersonic Vehicles" on April 17, at 4:45 p.m. in the Kearny Mesa employee dining room. Call Mary, 33949, for a reservation.



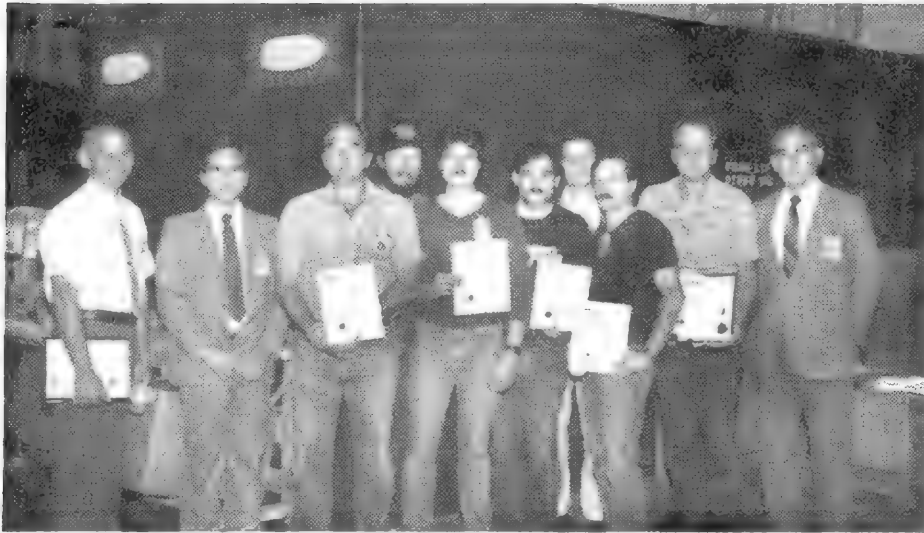
Maintenance Keeps Us Looking Our Best. Delmar Todd (center), a maintenance custodian, is the winner of a new General Dynamics jacket awarded him for his excellent work. Delmar has 15 years of service with Convair Division, most recently in the Advanced Programs area at Lindbergh Field. He is congratulated by John Fielder (left), Operations general supervisor, and Shelley White, supervisor.

Employment

For the week ending April 5, employment was 12,032.

CONVAIR Weekly Log SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics



The on-schedule deployment of the Tomahawk ground launched cruise missile to operating bases in Europe is a reality because of the hard work of employees like the group of mockup mechanics in Department 031. They won EXCEL awards for their excellent work on the GLCM launch control centers, transporter erector launchers, and training equipment. At the award presentation were (left-to-right): Gerry Torregrosia (Operations supervisor), Dave Roldness (GLCM program office), and recipients Barry Knupp, Brad Philpot, Jim Crosby, Glenn Gannon, Pete Koziski, Steve Sedlak, Lynn Atnip, with Joe Rogers (superintendent - Prototype and Preproduction).

Convair Division

LRSOM Study Awarded

Convair Division has been awarded a \$3 million competitive study contract by the U.S. Air Force Armament Division at Eglin AFB, Florida, to assess the feasibility of joint development of a conventional long-range standoff missile (LRSOM) by the United States, United Kingdom, and West Germany. Convair has teamed with Hunting Engineering in the UK and Dornier GmbH in West Germany to conduct the 15-month study. Austin Ryan, Advanced Payloads, is program manager for the LRSOM study, which is an extension of cruise missile technology.

Security Tip

Visitors from communist countries or those countries designated by Defense Investigative Service, including Afghanistan, Angola, Ethiopia, Iran, Iraq, Libya, Nicaragua, Southern Yemen, and Syria, are not usually granted permission to visit our facilities. Please report any proposed visits by citizens of these countries to Se-

curity as soon as the information becomes available.

When a visit is authorized, strict security control procedures will be instituted.



Ken Lake, division vice president - Operations, assisted by Roger Mark (center), congratulates O.C. Baillif, one of the Cutter Support group EXCEL winners.

Operations Recognizes Cutter Support Achievements

A special recognition event honored several Cutter Support department achievements at Lindbergh Field on April 2. Cutter Support personnel grind, recondition, and preset tens of thousands of cutting

tools to support fabrication. Since April 1983, they have set higher realization goals each quarter and have met or exceeded all of them. For example, they finished the second quarter of 1984 with a 120% realization on a target of 100%, up from a target of 68% set in the same period of 1983.

Cutter Support has several active and successful Quality Circles that shared in the recognition. Members of the *Motivators*, a second-shift circle led by supervisor Roy Miller, received cash awards through the Employee Suggestion program for their method of improving the quality of vendor-supplied and reconditioned cutters. *Spark City Commission*, led by John Robutka, received Cost Reduction Program awards for their idea to easily identify the used end of a center drill when it returns for resharpener. Cutter Support general supervisor Roger Mark leads the *Super-Niners*, a circle made up of supervisors from related departments who meet to solve interdepartmental problems.



Ed Squires, division vice president - Cruise Missile Product Line Operations (right) presents Ray Herrera with his Employee Suggestion award.

Another Good Idea Rewarded

Ray Herrera, senior tooling specialist in the Tool Design group, was recently presented a \$7,678 Employee Suggestion award for a proposed design modification to processing racks that hold cruise missile body sections during chemical processing. His good idea ensures positive electrical contact between the rack and the part, thereby eliminating shorts that could damage the body section.



George Kraft, Jr. (center), a senior test engineer in the Engineering Test Laboratories, received an Extraordinary Achievement Award for his dedicated support of the Hard Mobile Launcher proposal. Beginning in April 1984, George was responsible for integrating all independent research and development activities supporting the proposal, as well as developing the shock tube in support of the proposal. Tom Sammon (right), director - Engineering Test & Evaluation, presented the award, along with Dennis Uhlken, chief - Engineering Test Labs.



Ground Electronic Development Laboratories (Department 637) support our Research & Engineering function by building special electronic test and ground support equipment for all Convair and Space Systems product lines. Recently, several individuals worked extra hard to ensure delivery of a critical piece of Shuttle/Centaur equipment to the Eastern Test Range in Florida. For their effort to meet the important milestones, Bruce Hosking, group leader, and Ella Johnson and Bea Tankersley, engineering electronic technicians, received EXCEL awards. Presenting the awards were John Njaa, Engineering supervisor (far left), and Les Wolf, Department 637 supervisor for Shuttle/Centaur (far right).

Professional Development Opportunities from the NMACC First Line Supervisor Courses. Management Principles (FLSC 2) begins Wednesday, May 8 at 4:30 p.m. in Kearny Mesa building 25 Research & Engineering conference room. Facilitator: Bob Byron, 34552.

Challenge of a New Employee (FLSC 6) begins Thursday, May 16 at 4:30 p.m. at Lindbergh Field (room to be announced). Facilitator: Gil Olson, 27986.

Conversations with Management. These presentations are open to all em-

ployees, free of charge. The upcoming schedule:

April 25: Chuck Bohle, division vice president - Finance.

May 2: Henry Hyman, director - Productivity.

May 9: Dr. Ray Beuligmann, division vice president - Research & Engineering.

Call Bob Clemens, 27279, for a reservation. Meetings will be held at Kearny Mesa building 2 in the presentation room from 4:30 to 6:00 p.m.

March Retirees

Thanks and best wishes for a happy retirement go to these employees who retired in March:

Name (Dept.)	Years of Service
Jewell S. Adamson (193-3)	
Accounting Supervisor	28
Charles Baker (952-0)	
Engineer	23
Robert Benzwi (048-0)	
Senior Project Engineer	27
Paul W. Bergstedt (633-6)	
Senior Scientist	27
George Bradley, Jr. (221-8)	
Shop Load Analyst	37
Richard A. Burgdorf (674-0)	
Engineer	5
James Caldwell (047-0)	
Operations General Supervisor	41
Nettie M. Caldwell (038-0)	
Missile Mechanic	22
Eldon D. Cordle (455-0)	
Sr. Maintenance & Tooling Welder	30
Harry C. Crangle (026-0)	
Assembler - Bonded Structures	6
Mark F. Dorian (611-0)	
Engineering Manager	26
Henrik Eskesen (979-1)	
Senior Engineer	26
Marian M. Evans (653-1)	
Secretary	28
Helen L. Grant (131-2)	
Supervisor - Central Medical	33
Robert F. Handley (043-0)	
Aircraft Assembler	42
Charles C. Harper, Jr. (244-0)	
Engineering Specialist	38
Patricia K. Hawkins (224-8)	
Operations General Supervisor	31
Imogene Jenkins (002-0)	
Painter - Identification Markings	16
John M. Kechele (979-2)	
Group Engineer	27
Marvin C. Ladd (460-0)	
Grinder Machinist - Tool & Cutter	25
Harold W. Leyva (031-0)	
Mock-up Mechanic	25
Mike C. Luban (067-0)	
Missile Mechanic	28
Edward E. Madrid (451-0)	
Mock-up Tool Builder	32
John D. Neilson (525-0) DSD - WC	
Senior Programmer/Analyst	28

Howard R. Pearson (985-2) - WTR	
Chief - Engineering Services	28
Maurice T. Raaberg (611-0)	
Chief - Program Engineering	28
Eddie Ruiz (043-0)	
Aircraft Assembler	36
Philip P. Shepard (242-0)	
Master Schedule Supervisor	29
Hans M. Stocker (691-1)	
Engineering Specialist	32
Cleo F. Thomas (048-0)	
Missile Mechanic	9
John C. Velguth (250-2)	
Group Engineer	21
Charles E. Walker (432-0)	
Senior Tooling Specialist	23
Robert O. Walters (979-3)	
Facilities Engineer	27
William H. Whitley (689-0)	
Engineering Specialist	34

Implant Dialing Instruction Change for Sycamore Canyon

Please note change for implant dialing to Sycamore Canyon: 5XXXX



Time for Daylight Saving! Photographer Pete Autio rounded up some "clock-wise" people to help remind everyone that daylight saving time begins next weekend. Set clocks ahead one hour before you go to bed next Saturday night. Daylight saving time begins at 2:00 a.m. on Sunday, April 28. From the top are Mark Fowler, senior engineer; Marge Swilper, timekeeper; Julius Davis, Transportation group leader; and Mollie Hashiguchi, secretary - DSD - Western Center.

Employment

For the week ending April 12, employment was 12,036.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair and Space Systems divisions. If you have stories of interest, please call Julie Andrews, 39955, or send them to MZ 33-1334.

Managing Editor Julie Andrews
Production Editor John Doty
Design/Layout Peter Urban

CONVAIR Weekly Log SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

Convair and Space Systems Products at Major Trade Shows

Convair's Tomahawk cruise missile was the star of the show at the Navy League's 1985 Sea-Air-Space Exposition in Washington, D.C. on April 2-4. Five major sections of actual flight hardware from Convair's cruise missile production line were the center attraction of the General Dynamics exhibit, which also included displays from Pomona, Electronics, Electric Boat, Quincy, and Fort Worth divisions.

The cruise missile was displayed on a stand, with each of the five sections separated by a 10-inch clear plexiglass ring, so that portions of the interior structure were visible to the public.

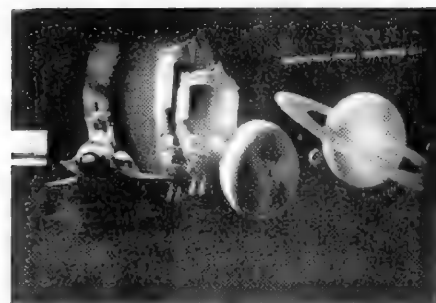
The annual Navy League show brings together key members of the U.S. Navy, Marine Corps, Coast Guard, and Merchant Marine. This year, more than 100 leading aerospace, defense, and maritime industries exhibited during the event.

No sooner was the Navy League show over than the exhibition hall was cleared out to make room for the annual meeting of the AIAA (American Institute of Aeronautics and Astronautics), April 9-11. The General Dynamics exhibit featured the products of our newly formed Space Systems Division. Dr. Alan Lovelace, recently appointed vice president and general manager of Space Systems, is also the incoming national president of AIAA. The AIAA meeting is a technical symposium widely attended by a cross section of the aerospace community.

The exhibit included a 1/15th-scale model of the Shuttle, Centaur G-prime, and Galileo spacecraft, demonstrating the separation of the Centaur/Galileo from the Shuttle cargo bay. Graphic panels of Centaur G and G-prime, along with Jupiter and its satellites, were displayed as a space background. Four 1/15th-scale-model Atlas configurations stood against another wall.

Our participation at both of these major shows in Washington (where the majority of our customer community is located) provided us an opportunity to conduct briefings on our current and future program ideas.

Navy League exhibit (right), with Jupiter — Shuttle/Centaur's first mission destination — in the background, and American Institute of Aeronautics and Astronautics exhibit (below), were both designed by Roy Gjertson and Bob Kemp, senior graphic coordinators in Convair's Art & Editorial department. The exhibits were recently featured in Washington, D.C.



Elling Attends Shuttle Launch



Dick Elling, a structural design engineer on the Shuttle Orbiter Mid-fuselage program, has returned from the April 12 launch of the space shuttle *Discovery*. Dick was invited to attend the launch in Florida as part of a special event sponsored

by Rockwell International — prime contractor for the shuttle — to honor members of Quality Circles who have contributed to the Space Transportation System program. Dick was the General Dynamics representative in a group of 50 QC honorees who are employees of the subcontractors involved in the program.

"It was a great privilege," Dick said, "having worked on the program for ten years, to see the end result of our design accomplishment and to be with a group of people — Quality Circle volunteers — who characterize pride in quality workmanship."

Dick is a member of Concepts Unlimited, a Quality Circle led by Vern Kettler in Space Programs Structures and Design.

New Address

GENERAL DYNAMICS

Space Systems Division

P.O. Box 85990

San Diego, CA 92138

Telephone Got You Confused?

C'mon. Confess. You've forgotten how to answer a telephone call indicated by the "call waiting" signal. A one-hour training session on how to use all the features of our Dimension telephone system is now being offered by our Telecommunications department for all employees who use the telephone on the job. New employees and those who need a refresher should check with their supervisors about attending a class. For more information, call Bobbie Alexander, 35553.

Good Housekeeping Tents for Shuttle/Centaur

Final assembly of Shuttle/Centaur hardware is being completed inside *good housekeeping tents*, which are specially designed to maintain a high level of cleanliness. The tents are made from a urethane-coated fabric that does not release contaminants into the air.

The tents are also designed to be positive pressure enclosures. When the door opens, air flows out, not in. All major components of Shuttle/Centaur, including the 14-foot-diameter Centaur vehicle, the Centaur support structure, and the Centaur adapters, are placed in the tents for final assembly of ducting, pneumatics, and avionics.

The cleanliness requirement, approved by NASA, ensures that the Shuttle/Centaur will be suitable for placement into the cargo bay of the Shuttle. Our Manufacturing Engineering Program Support team initiated the design of the tents.



Tom Smith, chief - Manufacturing Engineering, Shuttle/Centaur (left), and Rick Jelusich, senior engineer - Tool and Manufacturing, are preparing to enter the tent housing final assembly of the Centaur support structure.



Buckle Up, San Diego!

Your seat belts. They could be the single most important, life-saving device that you ever chose to use, yet a majority of people choose *not* to buckle up. Why? They all seem to have an answer for not taking the few extra seconds and extra effort to dig out, dust off, and fasten those seat belts.

The San Diego County Safety Council has collected a series of "Seat Belt Fairy Tales" that we will occasionally reprint in the *Weekly Log*. Following is myth number one:

"I don't need to wear my seat belts because I'm an excellent driver."

FACT: No matter how good a driver you are, you can't control another driver. A car hurtling toward you at high speed could be the result of mechanical failure or a drunk driver. There's no way to prevent someone else's poor judgment and bad driving.

...To be continued.



Extraordinary Achievement. Joe Moore, supervisor of the Proposals group in Art & Editorial (center), was recently presented an Extraordinary Achievement Award for his outstanding leadership in proposal preparation. During a critical ten-week period at the end of 1984, Convair Division was required to respond to an unprecedented series of five new major business opportunities, all of vital importance to the division's future. The overlapping nature of the schedules and due dates of the proposals severely taxed the resources of the Art & Editorial department, requiring an extraordinary management performance on Joe's part to ensure on-time delivery of all printed proposals while maintaining the high level of publication quality necessary to properly project the division's business image. Presenting the award to Joe are John DeBlanc, director - Convair Program Development (left) and Norm Rutherford, manager - Art & Editorial.



Nick Montallegro, a tank assembly mechanic-group leader in Space Systems Tank Fabrication (Department 759), was awarded the Space Systems Manufacturing Employee of the Month Award for March. He received a \$6,072 Employee Suggestion Award for an improved method of locating brackets on the Shuttle/Centaur aft bulkhead. Nick — a 33-year General Dynamics veteran — was named Employee of the Month for his excellent performance in leading the welding team that produced the aft bulkhead for Shuttle/Centaur 2 in record time and under target cost. Also, he has been instrumental in training a number of new personnel in the welding techniques that are so critical to a quality tank. Presenting the award are Lou Imbimbo, manager - Plant 19 Operations (left), and Howard Bonesteel, director - Space Systems Manufacturing Product Line (right).

Tree Planting Program Open to All

General Dynamics is participating in a program that allows non-Israeli citizens to take part in Israel's reforestation efforts.

Under "The Regeneration of Endangered Evergreens" (TREE) program, employees may donate five dollars to plant one new tree in Israel. If 1,000 trees have been provided in this manner by the end of 1985, a General Dynamics grove will be dedicated in the Galilee region of the country.

Each employee who contributes will be given a certificate recognizing his or her participation.

Originally, participants signed up on a display board at the General Dynamics office in Tel Aviv. Fort Worth's Quality Assurance department is now coordinating the effort. General Dynamics employees in the United States can contribute by mailing donations to: Diane L. Hanson, Mail Zone 1781, General Dynamics, P.O. Box 748, Fort Worth, Texas, 76101.

Checks should be made out to General Dynamics — TREE. Do not send cash. Donations will be forwarded to the Israel office.

Employment

For the week ending April 19, employment was 12,063.

May 20, 1985

CONVAIR **Weekly Log** SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

The following editorial appeared recently in the Wall Street Journal. It is reprinted in the Weekly Log to shed some light on questions that employees have about ongoing allegations directed at General Dynamics.

The Pentagon's Gosplan*

In the continuing soap opera, "The Defense Business," the Pentagon is currently trying to fire the chairman of General Dynamics Corp., long the top dog of the saga. Spunky Northrop Corp., after a capitalist gamble, may now have a chance to sell some of its F-20 airplanes, gunning down at least part of General Dynamics' F-16 order. There must be a better way.

The charges against General Dynamics are especially instructive. It's under investigation for criminal fraud. The charge that excites Congress is that the company billed country-club memberships for executives as overhead, and also an executive's dog-kennel bill. No one seems to ask what strikes us as the burning question: If the Pentagon is going into the business of policing expense accounts, how will it ever find time to worry about the Russians?

Well, you see, the General Dynamics controversies involve one or another version of "cost-plus" contracts, so some bureaucrat has to verify its costs. Someone has to decide that the plane fare for an executive's sudden trip is a cost, but the kennel for his dog is not. Someone has to decide how much of the company chairman's salary is allocated to contract X and how much to contract Y. And when the Pentagon's own Gosplan breaks down, it toys with the idea of solving the problem with a ban on doing any business with its biggest contractor's chairman and top financial officer.

Intriguingly, Northrop revived interest in its beleaguered F-20 program early this year by offering to sell the government 400 of the fighters at a fixed price of \$15 million (in 1986 dollars) per plane, along with lifetime maintenance at a fixed rate. When Northrop set out several years ago to build the F-20, it took the unusual step of putting up \$800 million of its own money, instead of asking for government-funded research and development. The F-20 was intended primarily for foreign markets, but foreign governments asked why the U.S. Air Force kept buying more expensive F-16s. Now the fixed price offer, along with General Dynamics' problems, has produced some interest in both the Pentagon and Congress.

Without delving into the debate over the two aircraft, it does seem to us that the Northrop approach represents at least a crack in the Pentagon Gosplan mentality. If you negotiate a fixed price, the contractor can rent all the kennels it wants, but the cost comes out of its pocket. This incentive would also apply to other costs that don't happen to make bad public relations.

By now, though, the Gosplan mentality is so deeply embedded

it may be hard to eradicate. Consider that General Electric Co. got the kind of "fixed-price" contract Northrop is trying to get, but still reaps controversy. The contract supposedly allows the company the benefit of coming in under cost, but after having succeeded, GE finds itself charged with earning an "excess profit." GE managed to come in with \$168 million in savings, chiefly by betting on inflation being lower than the Defense Department expected. While GE would have eaten the losses if it had been wrong, when it proved right, Pentagon auditors charged the company with earning "excess profits" derived from luck rather than greater efficiency.

It increasingly looks like a no-win game. Of 100 top contractors, 45 are under investigation for possible criminal wrongdoing. Have half the nation's military suppliers suddenly become corrupt? No. What has happened is that an atmosphere exists in which the mere charge of wrongdoing is taken as conclusive. And the rules written by Congress — most, ironically, during 20 years of "reforming" of a process that worked well until the late 1960s — have made it virtually impossible for a business to operate without either raising suspicion or losing money.

Indeed, what has emerged is a kind of defense industry McCarthyism. The Pentagon critics — people like Sens. Charles Grassley and Larry Pressler and Reps. Joseph Addabbo and John Dingell — wave toilet seats, wrenches and hammers allegedly overpriced by corrupt private contractors. They complain of cost overruns and paying for dog kennels. And this provides an excuse, which a House committee and the full Senate have now taken, to vote for reducing military spending below the levels suggested by Jimmy Carter in 1980 and Walter Mondale in 1984.

Little matter that the overpriced hammers are themselves the result of Gosplan-like procedures for pricing, or that the cost overruns are mostly the result of congressional contract stretching, or that there is no reason for the Pentagon to even know about expense accounts. Too many congressional staffers and Air Force program officers have made their careers in Gosplan.

Any real reform has to start with Congress, and we're happy to see at least a few voices saying the right thing. After heading an audit of the overcharges, Rep. Bill Nichols came away saying "the system is the problem" and calling for fixed-cost contracts. This reform would be hard to impose on the Pentagon, Congress and the contractors. But it would be good for national security. And if you stop to think about the current problems at General Dynamics, you can start to see it would be good for the contractors as well.

*Gosplan: A Soviet agency that makes long-term economic and social plans and generally supervises their execution.

Space Systems Division

Shuttle/Centaur Test Vehicle Passes Structural Testing

Another significant milestone has been achieved on the Shuttle/Centaur program with successful completion of test vehicle structural testing at Sycamore Canyon.

During the testing, loads representing 140% of the design limit and 110% of maximum tank pressure were imposed on the vehicle. All test objectives were met.

Build-up has now begun to reconfigure the stand and vehicle for the next phase of testing.

Buckle Up, San Diego

As a continuing public service to Convair and Space Systems divisions employees, the San Diego Safety Council has provided the *Weekly Log* with another common myth about seat belts and facts that disprove the fairy tale.

MYTH: "I might be saved if I'm thrown clear of the car."

FACT: Your chances of being killed are 25 times greater if you're thrown from your car. Your seat belt can keep you from being thrown into your passengers, through the windshield, or out the door to scrape along the ground to be crushed by your own car. If you're wearing your seat belt, you're far more likely to be conscious after an accident to free yourself and help your passengers.

...to be continued.



Senior Quality Specialist Michael Badger (left) receives an Employee Suggestion Award of \$1,087 for his idea to modify a machining operation sequence on cruise missile body sections. Badger submitted the idea when he was an N/C machinist in Department 015. Mark Frazier, assistant director - Procurement Quality Assurance, presents the award.

If You Fill Out Travel Orders...

Travel Accounting reminds all employees who fill out travel orders that a special employee number must be used for anyone who is not a Convair or Space Systems employee (contract employees, people on loan from other divisions, etc.). The number is 888888. If you have questions, call Harrell Hurt, 24624.

They Retired In April

Thanks and best wishes to our April retirees:

Name	Department/Position	Yrs. of Service
Herbert E. Baxter	225-4 In-Process Dispatcher	30
Donald L. Blanchard	361-0 Senior Quality Engineer	27
Robert Bulick	543-4 Production Control Specialist	25
Lawrence F. Cescolini	041-0 Aircraft Assembler	39
Robert G. Damschroeder	267-0 Logistics Support Parts Analyst	43
Eloise E. Dyer	251-5 Group Leader - Telecommunications	30
John B. Evans	253-3 Senior Facilities Engineer	31
Reginaldo Gallardo	015-0 Honed Surfaces Mechanic	16
Lawrence B. Goebel	675-0 Senior Engineering Drafter	3
Robert F. Graham	253-3 Operations General Supervisor	35
Archie L. Harmon	015-0 Duplicating & Profiling Machinist	22
Donald E. LeDuc	267-0 Logistics Administrator	2
Astolfo Lucero	043-0 Operations Supervisor	31
Floyd E. Mitchell	431-0 Senior Tool & Operations Planner	24
Louis A. Payne	117-3 Program Engineering Manager	25
Evelyn M. Recker	463-3 Tool & Cutter Grind Operator	27
Oneta L. Richeson	225-4 Production Audit Analyst	28
Paul Stadler	761-0 Missile Mechanic	12
Milford F. Tidmore	031-0 Instrumentation Lab Technician	29
William H. Tyson, Jr.	985-4 Group Leader	9
James I. Warren	253-5 Plumber	26

Savings and Stock Plan Values for March 1985

	1983	1984	1985
Salaried			
Government Bonds	\$ 3.4401	\$ 3.7145	\$ 4.0919
Diversified Portfolio	2.9224	2.9229	3.6609
Fixed Income	1.4725	1.6520	1.8587
Hourly			
Government Bonds	3.4375	3.7129	4.0903
Diversified Portfolio	2.9843	2.9765	3.7171
GD Stock	\$43.2500	\$45.6250	\$73.0000

Conversations with Management

Each presenter in this National Management Association Convair Chapter-sponsored series will give an overview of his organization, followed by a question-and-answer period. All sessions are held in the Kearny Mesa building 2 presentation room beginning at 4:30 p.m. The upcoming schedule:

May 23: Captain John McKechnie, SC, USN, Commander - DCAS.

June 6: Augie Daddi, division vice president - Industrial Relations, Convair Division.

For registration information, call Bob Clemens, 27279.

Security Tip

Employees who make arrangements for plant visitors related to company business are reminded that "escort required" visitors must be escorted at all times, from the point of entry to the point of exit.

At the meeting site, building, or place of business, visitors should have access only

to information and facilities that are required for the business at hand.

All "escort-required" visitors must be escorted to the lobby or point of exit at the completion of their visit.

From the Health-Fitness Center

Free Blood Pressure Screening. May 22, 11:00 a.m. - 1:00 p.m.

KM employee dining room
CRA auditorium

Dress For Success. May 21, 4:30 - 5:30

Lindbergh Field, building 1,
northwest mezzanine, column P-33

Workout. May 20, 4:30-5:30 p.m.,
CRA auditorium

Blood Chemistry Screening. June 11 and 13, 6:00 - 9:30 a.m.

CRA auditorium

KM/LF employee dining rooms

The screening costs \$15 and requires that you not eat for at least 12 hours before the test

Employment

For the week ending May 10, employment was 12,089.

CONVAIR *Weekly Log* SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

New Long Distance Network Operational June 1

The San Diego earth station of the General Dynamics satellite-based private long-distance communication system will be operational on June 1. Integrated Services Digital Network (ISDN) will link General Dynamics locations in St. Louis, Pomona, San Diego, Fort Worth, Detroit, and Groton with voice, high-speed data, and video communication.

Local and in-plant dialing will remain the same, but long-distance dialing will change. Under the new system, you will dial 8 rather than 9 to access long distance. Division codes (previously called tie-lines) will also change.

Complete dialing instructions will be distributed this week and will be available at all mail stations throughout the plant. The new instructions are designed to fit easily under all in-plant telephones.



The San Diego earth station was erected last year between buildings 1 and 26 to shield it from nearby microwave interference. It will begin operating on June 1.

New Smoking/No Smoking Policy

All employees should be aware of the upcoming revision of PAM 5-4 outlining the company's policy on smoking. The revised policy is in accordance with the latest San Diego City Ordinance (Section 45) relating to smoking in places of employment, and it includes several employee suggestions.

The objective of the policy, since its inception in 1978, has been to preserve a reasonable balance between the needs of smokers and non-smokers on company premises, while ensuring safety, product quality, work area cleanliness, and compliance with local ordinances. San Diego

and other areas throughout the country seek to establish a smoke-free environment at the workplace, with smoking permitted as the *exception*.

Desk-top *Thank You for Not Smoking* signs are available to employees at the Employee Benefits offices. When posting an instruction dealing with smoking is deemed necessary, supervisors should contact the Safety department. Please ensure that only notices approved for posting appear in the workplace.

Group Completes Shuttle/Centaur Dock

Before production begins on any program, many activities must be completed. One of these preproduction tasks is building the fixture and special tooling that will hold a hardware item as it is being built. A group of jigs-and-fixtures builders from Tooling Manufacturing-Operations was responsible for building the dock that houses the second Shuttle/Centaur vehicle during final assembly. The dock is capable of holding the 14-foot-diameter Centaur G and G-Prime, and the 10-foot-diameter Centaur

D-1A. It took a long time to build the dock — almost 4,000 hours for the dock and ancillary tooling. The group recently received recognition for timely completion of the task, as well as for their outstanding performance on the job.



National University Valedictorian: Rob Meyer. The valedictorian of the spring graduating class at National University was Rob Meyer, chief pilot of Turboprop Operations for Convair Division. Rob was granted a master of business administration degree in information systems during the graduating ceremonies held at the North County campus.



Joe Schimka (foreground), Tooling general superintendent, expresses thanks to Operations supervisor Frank Campbell and jigs-and-fixtures builders. Row 1, left-to-right: David Terwilliger, Jim Mayer, Ed Willits, Craig Hobson, and Max Nelson. Row 2: Mario Padilla, Gene Bennett, Fred Valkema, Marvin Core, Ron Baird, Andy Falken (chief - Tool Manufacturing), and Rick Jelusich (senior engineer - Tool Manufacturing). Row 3: Carl Melancon, Marv Schriock, John Lessing. Not pictured: Jim Scarborough, Randy Carter, Ed Cordle, Karl Croft.

Pad Gets Rehab

The Space Launch Complex 3 west pad at Vandenberg AFB has a new look, thanks to refurbishment work by the Western Space and Missile Center team and a private contractor. The tower, formerly gray, is now white and displays nine-foot block letters spelling *ATLAS*. SLC-3 West has been launching space boosters since 1959.

After the recent refurbishment, it was rededicated. Gen. Donald Henderson, commander of the Air Force Space & Missile Test organization, congratulated the group for the work being on time and within budget. The next Atlas launch from SLC-3W is scheduled for August.



Pictured in front of the recently rededicated launch complex pad are Col. Lawrence L. Gooch, Western Space and Missile Center commander; Chuck Harter, base manager; Maj. Gen. Donald Henderson; Kenneth Jorgenson and Chet Rawson, Stearns-Roger Contracting; and Col. David M. Richardson, 6595th Aerospace Group commander.

Park Illegally, You Could Get 'The Boot'

A new device to combat illegal parking in our lots will be used by Plant Protection starting this week. The device is known as the *Denver Boot*, after the city whose police department first used it. The device clamps on the wheel of an illegally parked car, making it immobile until the driver locates the plant protection supervisor who has the key to unlock it. Plant Protection reminds all employees to avoid *the boot* by being aware of the following illegal parking situations:

- Parking in a transit or commuter lot without the proper pass

- Parking in a reserved spot or in visitor's parking
- Parking in *No Parking* zone
- Parking at the ends of aisles



Plant Protection's new illegal-parking deterrent — the "Denver Boot"

Buckle Up, San Diego

Most of us have been driving for more years than we would like to admit. Was it really that long ago that we were 16 and so excited to get our first driver's license?

Even though we may not be professional drivers who log many miles per day, we all drive to and from work and use our cars for running errands, shopping, and for pleasure. But, how many of us use our seat belts?

There are many reasons why people won't wear seat belts and many more reasons why they should. The San Diego Safety Council has provided us with another popular fairy tale that many of us use as an excuse for not wearing our seat belts.

Myth: "I don't need to wear my seat belt when I'm just driving to the store or bank."

Fact: More than 80% of all accidents occur at speeds of less than 40 miles per hour. Three out of four accidents causing death happen within 25 miles of your home.

Telephone System Training

If our Dimension telephone system has you confused, check with your supervisor about enrolling in the one-hour training session that covers how to use all the features of our in-plant telephone system.

The training is conducted by our Telecommunications staff for all employees who use the telephone on the job. For more information, call Bobbie Alexander, 35553.

Employment

For the week ending May 17, employment was 12,108.

CONVAIR *Weekly Log* SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

Excerpts from an editorial appearing in the May 24 St. Louis Globe Democrat.

....[David Lewis'] record at General Dynamics is the kind of success story that a company CEO rarely achieves. When Lewis became top man at General Dynamics in October 1970 after a phenomenal tenure as president and chief operating officer of McDonnell Douglas Corp., he took over a troubled company that had suffered a series of disasters in shipbuilding, missiles, data processing products and commercial aircraft. His stature was so great that the entire headquarters of General Dynamics moved to St. Louis as a condition of luring him away from McDonnell Douglas.

Within a short time, the soft-spoken but decisive Lewis turned General Dynamics around and set it on a course that has been almost straight up ever since. From those problem-plagued days, Lewis brought General Dynamics all the way to the top. In 1984, General Dynamics was the largest defense contractor in America, producing a number of the nation's most vital weapons systems, including the fabulously versatile and successful F-16 fighter aircraft, which is not only a mainstay of U.S. fighter squadrons but of tactical air units all over the world; the super-sub of the Navy's underwater fleet, the Trident ballistic missile submarine; the SSN 688-class fast-attack submarine; the Tomahawk cruise missile; the Atlas/Centaur launch vehicle that boosts communications satellites into orbit; an array of space-oriented and ballistic

missile programs, and an entire range of missile and gun systems programs, including the Stinger shoulder-fired anti-aircraft missile, to mention just some of the company's outstanding contributions to our national defense.

By the way, there has been almost no news on the fact that General Dynamics under Lewis recently delivered the sixth Trident submarine, the USS Alabama, ahead of schedule; and over the past two-and-a-half years has delivered 11 Trident and SSN 688 fast-attack submarines ahead of schedule. Convair's Tomahawk cruise missile has achieved a 100 percent success rate on all 10 of its test-and-evaluation flights, and the Atlas/Centaur boosted an Intelsat V-A communications satellite into a 22,256-mile orbit in a flawless launch. These are just some of the multitude of good news stories about General Dynamics that you haven't heard.

The editorial continues by citing the Velliotis charges, the alleged improprieties connected with gifts to Admiral Rickover, and questioned government billings.

In this era of let's-kick-defense-industries, we should guard against turning accusations into convictions and smears into unimpeachable truth. We should weigh the source and then place our own value on charges being made. In the case of David Lewis, these charges against General Dynamics should not be allowed to obscure his great accomplishments, a record that few shall ever hope to match in their brief span on earth.

June Management Association Meeting Program Change

David S. Lewis, chairman and chief executive officer of General Dynamics, who was to speak in San Diego at the June 13 Management Association dinner, is scheduled to undergo surgery on June 5 and regrets not being able to attend. We wish Mr. Lewis a speedy recovery.

Speaking in his place will be Lester Crown, who is an executive vice president of General Dynamics, chairman of Material Service Corporation, member of the

Board of Directors of General Dynamics, and a member of the Executive Committee of the Board.

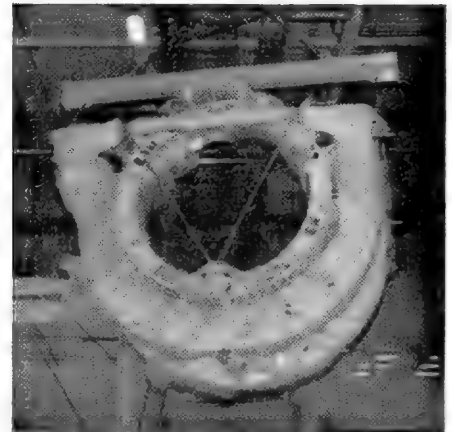
The meeting will be held at the Town & Country Hotel, with dinner at 6:00 p.m. and the program at 7:00. Tickets are \$10.50 for members and non-members.

Major Mate Successful on Shuttle/Centaur

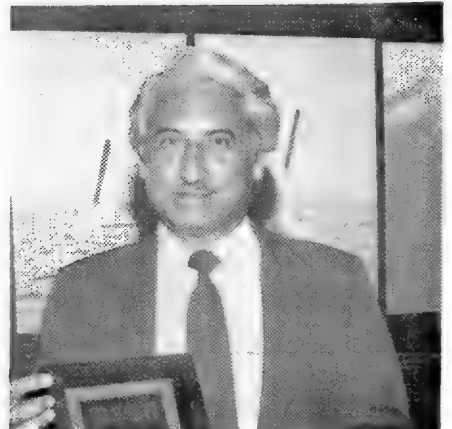
Another major milestone in the Shuttle/Centaur program was achieved recently when the first flight deployment adapter

was mated to the Centaur support structure. The structure, shown below suspended from the overhead crane in Kearny Mesa's building 5, will support the Centaur G-prime inside the shuttle cargo bay.

When the shuttle reaches its orbit, the structure will rotate the Centaur and Galileo spacecraft up and out of the cargo bay to launch the planetary mission to Jupiter in May 1986. The unit will be used in conjunction with the first flight vehicle.



Awards Banquet Honors Local High School Students



Frank Rojas with award presented to Convair by San Diego MESA

The San Diego Regional Center of MESA (Mathematics, Engineering, and Science Achievement) held its fifth annual awards banquet on May 2 to honor outstanding county high school students. MESA, a statewide program designed to increase the number of under-represented ethnic

groups in professions related to math, engineering, and physical sciences, serves 180 target students in eight San Diego high schools. In addition to its other activities, the San Diego State University MESA Center awards scholarships to selected graduating seniors who plan to pursue college degrees.

This year, the Scholarship Committee, headed by Convair logistics specialist Frank Rojas, raised \$14,500 in scholarship money from area firms including Convair. Rojas, a 29-year Convair employee, has served on MESA's advisory board for five years. At the awards banquet, he accepted an award presented to Convair by Frank Stratton, SDSU Civil Engineering department chairman.

New R&D Contract for Space Systems

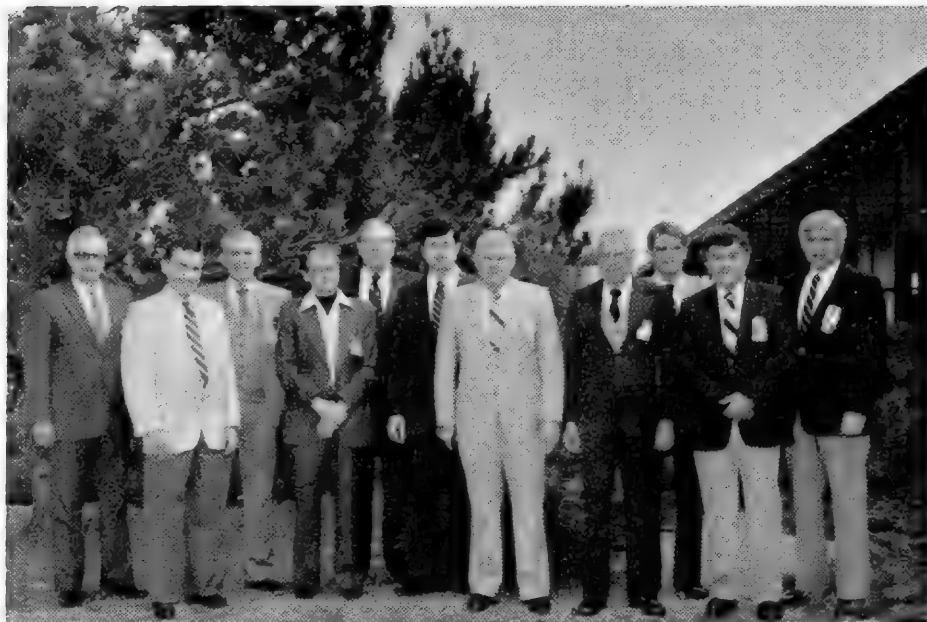
Space Systems Division has won a NASA contract to design and construct an AC power processing breadboard for the Marshall Space Flight Center in Huntsville, Alabama. This contract continues our commitment to develop alternating current (AC) methodology in space vehicle power systems. Previous space vehicles have carried DC power systems, but the emerging series of new shuttle-based spacecraft, particularly NASA's space station, will have larger power needs and longer transmission distances than ever before. These needs would be hard to meet with a DC power system. Our continued involvement at the heart of AC power system development should carry us into the age of the space station and beyond.

The work will be performed by the Space Power group, Advanced Energy Systems, under the direction of Sumner Hushing.

Convairite Honored at Naval Parade



Former Master Chief Petty Officer of the Navy Thomas S. Crow — now a senior industrial relations representative at Convair — was the guest of honor at the graduation ceremonies and parade at the San Diego



For 35, 40, and 45 Years of Service. Convair General Manager John McSweeney hosted a service award breakfast on May 17 to recognize employees with 35, 40, and 45 years of service to the company. The honorees received a special gift and McSweeney's personal thanks for their contributions. From left to right: Les Cozzens (35 years), George Roos (staff), Charlie Johnson (35), Wally Butts (45), Augie Daddi (staff), Randy Simpson (staff), Ernie Larson (40), Leon Moore (35), Bruno Bracka (staff), Chuck Fontaine (35), and Joe Stelmah (staff).

Naval Training Center on May 3. Six companies marked their graduation from recruit training, passing in review before Crow and present Master Chief Petty Officer Billy C. Sanders.

Crow joined the Navy in 1953, advancing through the ranks in a distinguished 30-year-plus career to become the fourth Master Chief Petty Officer of the Navy. He retired from the Navy in 1982.

He was recently awarded an Extraordinary Achievement Award at Convair for his outstanding work in developing the comprehensive training program for Operations supervisors.

Family Fun Day!



Ticket sellers from left to right: Joan Stanton, Victoria Dixon, Sandra Torres, Connie Franklin, Marge Vacca, Russ Babcock, Lou Imbimbo—picnic chairman, Joan Kowalik, and Rick Wood—CRA.

Russ Babcock, director—Procurement, is at the wheel of the 1985 Ford Ranger truck that will be the grand prize in the July 21

Family Fun Day drawing at Missile Park. The annual summer picnic is for all employees, families, and friends and includes a full day of activities. Tickets are on sale before and after working hours and during lunch periods. Proceeds go to benefit the Recreation Association.

June is Self-Care Month at the CRA Health-Fitness Center

Thin's Inn. June 3, 4:30 p.m., CRA Health-Fitness Center (only past Weight Loss Contest Participants eligible).

Free Self-Care Lecture. June 11, 4:45 p.m., CRA room A.

Healthy Blood - Healthy Body. 26-point Blood Screening Test, June 11 and 13, 6:00 - 9:30 a.m., CRA auditorium and KM/LF employee dining rooms. Requires that you not eat for at least 12 hours before the test.

Employment

For the week ending May 24, employment was 12,118.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair and Space Systems divisions. If you have stories of interest, please call Julie Andrews, 39955, or send them to MZ 33-1334.

Managing Editor Julie Andrews
Production Editor John Doty
Design/Layout Peter Urban

Published by the Convair & Space Systems Divisions of General Dynamics

Convair Division

Cruise Missile Flight Test Successes Continue

During the past two weeks, the number of consecutive cruise missile test flights climbed to 15, breaking all previous records while demonstrating a number of Cruise Missile program improvements and firsts.

On May 31, Tomahawk Anti-Ship Missile (TASM) T82:2 was launched on the Pacific Missile Test Range from USS *Norton Sound*. This demonstration test launch was the first launch of a Tomahawk cruise missile from a ship at sea using the vertical launching system. The missile went on to complete and successfully demonstrate several TASM program improvements, including an improved sea-skim capability. The missile was safely recovered on San Clemente Island.

"The launch of T82...included more 'firsts' than any previous flight, the most significant of which was the first vertical Tomahawk launch from a ship at sea....The smoothness of the launch and successful accomplishment of all test objectives almost belie the difficulties and technical challenges faced during the development process. Only the dedication and hard work of your individual team members over the past two years made this possible. While at times I was not optimistic that we could achieve the ambitious schedule, your people made it happen, and I couldn't be more pleased or impressed with their accomplishments. Please pass on to them my personal appreciation for their efforts and a well done on their success."

Rear Admiral S.J. Hostettler
Joint Cruise Missile Program director

On June 3, the Air Force successfully launched two ground-launched cruise missiles, T205:1 and T200:1, and recovered them at the Utah Test and Training Range, thereby completing consecutive flights 14 and 15, plus establishing additional cruise missile program firsts: the completion of two missions in close succession, launched from the same transporter erector launcher, using the same launch control system, and on the same day, from the

same location. These were flights five and six of the Air Force's Follow-On Test and Evaluation Phase II program and were the first two operational missiles returned from the European theater for actual flight testing.

Our flight test program successes continue to demonstrate the reliability and capability of the cruise missile system, the result of the entire cruise missile team — government and industry — working closely together for our nation's defense.

Composites Celebrates Shuttle/Centaur Push



In April, Department 019/028 and support group people in building 3 at Lindbergh Field began a month-and-a-half push to meet Shuttle/Centaur parts deadlines. Their progress was charted on a pair of thermometers labeled *When You're Hot You're Hot*. On May 30, Ken Lake, division vice president—Operations, stood before the two solid-red thermometers and thanked the large group assembled for the extra effort they put forth in meeting the targets. As promised before the drive began, three lucky names were drawn for special prizes: Rick Conshafter won \$100, Al Brown won a \$50 certificate for the Boat House restaurant, and B.C. Williams won a \$50 Mervyn's gift certificate.



From left to right are Terry Leek, manager-Composites; prizewinners Rick Conshafter (Department 220) and Al Brown (028), Jack Coffman, director—Fabrication; Ken Lake; and Mike Sawtell, Manufacturing Project Support.

Crown to Speak at June Management Association Meeting

The guest speaker for the June 13 management association meeting will be Lester Crown, executive vice president of General Dynamics, chairman of Material Service Corporation, member of the Board of Directors and of the Executive Committee. The evening gets under way with dinner at 6:00 p.m. and the program at 7:00. Tickets are \$10.50 for nonmembers and members.

—OVER—



Hats Off to Systems & Procedures. For their outstanding productivity, the Systems & Procedures group was awarded a group EXCEL Award recently. As part of Management Information Systems, the group has the difficult task of keeping division procedures up to date, including standard practices, division notices, and functional manuals. During the first quarter of 1985, they greatly increased their output with no sacrifice to quality — a significant contribution to division goals. From left to right: Carl Gobel, Herb Richmond (supervisor), Bob Byron, Al Borunda (chief), Jeff Rowland, Anna Clark, and Mike Tomaso. Not available for photo: Bob Bacon, Dianne Clark-Morris, and Allan Gschwind.



Nick Dyson (second from left) is presented with his journeyman certificate as a manufacturing development technician by Jules Hertz, manager of Materials and Process Engineering. Helen Hardy, apprenticeship coordinator and Mike Yokota were on hand to add their congratulations. Nick is the first to add this trade to complete the necessary 8,000 hours of on-the-job and related classroom instruction at San Diego City College to earn the journeyman certificate.

We're now four divisions strong at the Kearny Mesa location of General Dynamics in San Diego. In case you haven't noticed, the new sign on Kearny Villa Road lists Convair, Space Systems, Electronics, and Data Systems Division — Western Center.

Lakeside-Kearny Mesa Vanpool Has Opening

The Lakeside-to-Kearny Mesa vanpool has an opening for those employees who work the 7:30 to 4:15 shift. If you com-

mute from the Lakeside, East El Cajon, Parkway Plaza, or Grossmont areas, call Chandra Seats, 37981, for more vanpool information.

June Conversations Schedule

Conversations with Management is a series of presentations by division staff members sponsored by the National Management Association. The sessions are free to all employees and are usually held in the building 2 presentation room at Kearny Mesa beginning at 4:30 p.m. The June schedule:

- June 20: Dr. John Waszczak, director — Division Planning
- June 27: Henry Hyman, director — Productivity

Call Bob Clemens, 27279, to register.

Security Tip: Going In and Out of the Plant

As we are all aware, no classified information can be taken out of the plant without proper authorization from a Document Control Station. These security regulations apply not only to classified information in the form of documents, but also to film, computer equipment, computer tapes and diskettes, cassette tapes, or any recording device. Items of this kind may not be carried out under any circumstances when they contain classified infor-

mation unless they have been processed through a document control station.

If they do not contain classified information, they may only be taken out of the plant when it is necessary for the conduct of business between General Dynamics facilities, government agencies, or firms with which we do business. Justification must be in writing by a division staff member, and the written request must provide specific identification of the material to be taken in and out of the facility and must be countersigned by a member of the Security staff.

May Retirees

Thanks and best wishes for a happy retirement to the following employees who retired in May:

Name (Dept.)	Years of Service
Oliver C. Baillif (460-0)	
Grinder Machinist — Tool & Cutter . . .	34
Byron G. Bourguignon (253-1)	
Operations Supervisor	31
Dorothy J. Brugger (250-0)	
Plant Engineering Material Analyst . . .	28
Arthur L. Cornish (761-0)	
Missile Mechanic	14
Lawrence E. Cupp (340-0)	
Quality Assurance Supervisor	24
Robert L. Dye (455-0)	
Jig & Fixture Builder	14
Ralph E. Kenyon (111-0)	
Cost Development Engineer Specialist .	34
Norman F. Melber (633-5)	
Material & Process Analyst	26
Margaret B. Morse (251-7)	
Copy-Duplicating Machine Operator . .	31
Arturo Payan (250-5)	
Group Leader—Transportation	32
Viola A. Peck (111-0)	
Management Assistant	22
Merry M. Peplin (050-0)	
Elec. Processor — Syn. Compounds . .	2
Ralph R. Saylor (614-0)	
Engineer Specialist — System Safety . .	3
James P. Schreffler (242-0)	
Chief — Master Scheduling	33
Margaret M. Simmons (675-0)	
Design Drafter	22
Francis H. Skilton (647-0)	
Thermodynamics Senior Engineer . . .	37
Katherine I. Slubowski (251-6)	
Microfilm Control Recorder	25
Arthur W. Spencer (610-0)	
Project Engineer	30
Leonard B. Toornburg (019-0)	
Assembler — Bonded Structure	6

Employment

For the week ending May 31, employment was 12,140.

Published by the Convair & Space Systems Divisions of General Dynamics

Crown Speech Highlights June Management Meeting



General Dynamics Executive Vice President Lester Crown

Lester Crown, executive vice president of General Dynamics, spoke at the June 13 management association meeting attended by three management associations of the five operating units of General Dynamics in San Diego. He prefaced his remarks by saying that David Lewis' surgery was successful, that he is on the way to recovery, and he anticipates returning to work in three to four weeks.

Crown went on to say that the General Dynamics we see portrayed in the media is not the corporation we know. Regarding the various charges being made against General Dynamics, the media has attempted to make fact out of fiction through repetition.

For the near-term, our goal is to put these matters behind us quickly and concentrate on the future.

The biggest asset we have, Crown said, is the people who give us brilliant design, engineering, and manufacturing. We are meeting schedules and delivering quality products throughout all programs.

But we face more competition than ever before, and the hostile spotlight will probably remain on us for some time. With cuts in defense spending, we must continue to do better on current programs, while seeking out new business. Defense programs are being second-sourced in many cases, and we will go after that business; where we're involved in second-source, we want the lion's share. In addition,

we will grow with commercial acquisitions in the industry we know — heavy manufacturing. To meet our goals, the corporation is ready to commit the necessary resources for capital, research and development, productivity, and quality.

IR&D On-Site Review



Mary Klement (center) receives a special award from Colonel Van Pelt for her outstanding presentation during the recent on-site IR&D review. Convair's General Manager John McSweeney added his congratulations.

Col. Larry G. Van Pelt, director of the Flight Dynamics Laboratory of the Air Force Wright Aeronautical Laboratories, headed up a 48-man technical team from the Air Force, Navy, Army, and NASA to evaluate our Independent Research and Development (IR&D) programs during a review on May 28 and 29. During the concentrated review, 21 of our 55 IR&D project groupings were reviewed in three sessions on space, avionics, and general technology. The meetings were capped by tours of Atlas/Centaur and Cruise Missile final assembly areas.

On the last day of the review, Colonel Van Pelt noted the high quality of the presentations, which he said indicated strong communication and a good working environment. Of the more than 50 presenters taking part from Convair and Space Systems divisions, three were singled out by Colonel Van Pelt and his team as exceptional: Mary Klement, Connie Campbell, and Michael Duhl, representing each of the three general sessions.

Family Fun Day Just Weeks Away

Just a few of the treats in store for those who plan to attend the annual Family Fun Day at Missile Park on July 21: free bal-

loons, coffee and punch . . . train and carousel rides . . . adult and children's games . . . bingo . . . volleyball and softball . . . golf putting contest . . . band concert . . . reasonably priced refreshments . . . and more. Tickets for a \$1 donation are available before and after work and during lunch periods. The drawing grand prize is a 1985 Ford Ranger, second prize is a color TV, and third prize is a video cassette recorder.

Scholarship Award Winners Announced

Fifteen sons and daughters of General Dynamics employees were awarded scholarships at the June 13 Management Association meeting. The \$1,500 scholarships were made possible by scholarship fund donations throughout the year and by a \$7,000 grant from the Reuben H. Fleet Foundation. Winners are:

Melissa Berhow, O'Farrell School of Creative and Performing Arts, plans to attend UCSD. She is the daughter of Don and Magda Berhow. **Carolyn Coffee**, Junipero Serra, will attend UCSD. She is the daughter of Dennis and Joyce Coffee. **Michael Creamer**, son of George and Mary Lou Creamer, graduated from Gompers and plans to attend Harvey Mudd College. **Karen DiNal** is the daughter of Bob and Carol DiNal. She graduated from Junipero Serra and has not chosen a college yet. **Rebecca Hicks**, Francis W. Parker School, will attend the University of the Pacific. Her parents are Clarence and Norma Hicks. **Rosemarie LaCava** will attend San Diego State University. She graduated from Patrick Henry and is the daughter of Luigi and Betty LaCava. **Gregory Marshall** graduated from El Cajon Valley High School and will attend UCLA. His parents are Roger and Marilyn Marshall. **Carol Millslagle**, daughter of Richard and Antoinette Millslagle, graduated from Santana and will attend SDSU. **Jennifer Neal**, daughter of Dick and Marilyn Neal, plans to attend the University of California, Santa Barbara. She graduated from Patrick Henry. **Lisa Nicosia**, graduated from San Marcos and will attend UC-Riverside. She is the daughter of Joseph and Eloise Nicosia. **Wesley Odom** is the son of Ken and Rose Odom. He's a gradu-

—OVER—

ate of Mission Bay and will attend Stanford. **Catherine Schuster** will attend UC-Davis. She graduated from San Dieguito and her parents are John and Eleanor Schuster. **Lisa Sharp**, San Diego Academy, plans to attend Loma Linda University. She's the daughter of Ralph and Shirley Sharp. **Jennifer Sucov**, Grossmont, will attend UC-Berkeley. Her parents are Joel and Cynthia Sucov. **Deanne Willis** is the daughter of S. Keith Willis and Jean McIlroy. She plans to attend UCSD.

Congratulations to all the winners and their proud parents.

Young Engineer of the Year



Bernie Kuchta and Steve Allen, AIAA San Diego Chapter's Young Engineer of the Year for 1985.

Steven Allen, chief engineer on the BGM-109D program, has been awarded the first *Young Engineer of the Year* award by the San Diego Chapter of the American Institute of Aeronautics and Astronautics. Each year, the chapter presents the award to an engineer, age 30 or under, who has made significant contributions to the aerospace industry.

Allen was nominated by Bernie Kuchta, division vice president and chief engineer — Cruise Missile program, who also introduced him at the awards banquet. After recognizing Allen's achievements on the BGM-109D program — a new version of the Tomahawk cruise missile — Kuchta said, "Steve has successfully guided the program through preliminary and critical design reviews. His thorough technical approach and searching mind devise the innovative solutions necessary in such a complex developmental program. His patience, technical excellence, and leadership have met the challenge of a demanding program. Such broad engineering capability is rare at any age, but particularly so in one so young."

Steve received his bachelor's degree in aeronautical engineering from the University of Colorado and his master's from Stanford University. His wife, Karen, works at Convair, too, as an electro-optical technician in Department 686.

Employment

For the week ending June 7, employment was 12,170.

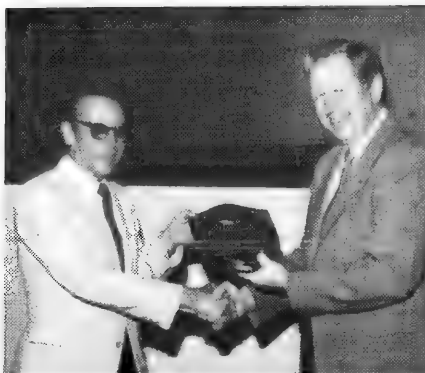
Savings and Stock Plan Values for April 1985

	1983	1984	1985
Salaried			
Government Bonds	\$ 3.5110	\$ 3.7305	\$ 4.1659
Diversified Portfolio	3.1392	2.9490	3.6914
Fixed Income	1.4862	1.6678	1.8766
Hourly			
Government Bonds	3.5090	3.7289	4.1644
Diversified Portfolio	3.2074	3.0030	3.7430
GD Stock	\$50.3750	\$50.2500	\$66.6250

Spotlight on Safety



Safety Development Course Graduates. Ten Convair and Space Systems supervisors have graduated from the 16-hour Safety Development course conducted by the National Safety Council and Convair Safety staff. The comprehensive course covers all aspects of industrial safety, including OSHA regulations, industrial housekeeping and material handling, machine guarding, safe use of tools, safety instruction, and an introduction to Convair's safety program. Graduates from left to right are Dave Lawrance, Oran Moore, Don Holzer, Tony Kalfayan, Ken Robinson, Tom Stalcup, John Routson, Minh Ta, Jim Yates, and Jerry La Branche.



Space Systems Earns KSC Award. Dick Bard (left) senior safety engineer, accepts a Safety Award of Distinction for Space Systems Division's Eastern Test Range Operations from Kennedy Space Center Director Dick Smith in recent ceremonies held at KSC. The 1984 KSC Award was presented in recognition of our achievements and contributions to safety.

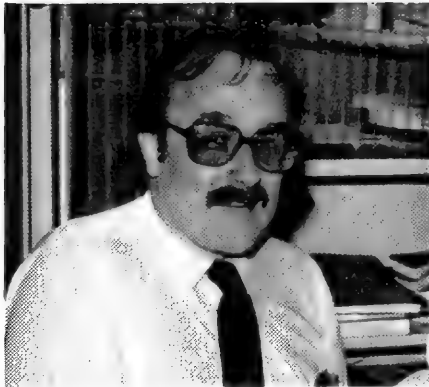


Convair Receives Motor Fleet Award. Convair has been awarded a Motor Fleet Safety Award from the San Diego County Safety Council. The award is presented to participants who sustain the fewest reportable accidents in their division. Our motor fleet — comprising 18 drivers and 19 trucks — competes in the 200,000-to-500,000-miles-per-quarter division. Bill Wise (right), director — Plant Services, presented the special plaque to Klaus Flitner, chief — Transportation.

CONVAIR Weekly Log SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

Bond Campaign Drawing Winner Attends Launch



Greg Mink, DSD-Western Center software engineer, is back at work after attending last Monday's launch of the Space Shuttle *Discovery*. Greg won the trip as the grand prize in the 1984 U.S. Savings Bond Campaign drawing for all participants. Asked to describe the launch, Greg had two words: awe inspiring.

"You're just not used to seeing something so large fly," he said. "Seeing it in person is much more impressive than seeing it on TV — especially when the sound reaches you."

Greg and his wife, Marla, also toured the Kennedy Space Center the day before the launch.

New Teleconferencing Facility Available

A specially modified conference room in Kearny Mesa building 4 is the home of a new fast-scan video teleconference facility. The system includes a video camera that can record a visual (document, drawing, viewgraph, photo, or small component), "freeze" the image, then load it onto a hard disk or transmit it to an offsite location. This background image is in full color. Operators at any on-line location can make foreground annotations, and all sites receive this imagery in real time — a capability that is ideal for engineers and technicians who need to display and discuss drawings. The technology also includes an excellent audio system, enabling participants to speak to one another in normal voice tones.

Sites currently on line with Convair and Space Systems divisions are the corporate

office, Fort Worth, and NASA/LeRC. Eventually, all General Dynamics divisions will have the capability, and key vendors and subcontractors will be encouraged to acquire the system as well.

Those who want to establish working conferences or demonstrations should contact Sam Long, teleconference coordinator, 35333.

Do You Really Need That Secret Clearance?

The Defense Investigative Service (DIS) has formally established a Security Clearance Reduction Program designed to identify those existing clearances and clearance requests that cannot be justified on the basis of actual need for access to classified information in connection with our contracts. If an employee has not needed to have access to classified information for six months or more, supervisors must initiate administrative downgrading action by notifying Industrial Security in writing.

Compliance is mandatory. We will be required to justify retention of existing clearances during forthcoming DIS inspections. To meet these requirements, department or program security representatives will conduct an employee security clearance survey in conjunction with our upcoming security self-inspection.

Your cooperation is appreciated.

Travel Fantasies

Seoul, Tokyo, Hong Kong, Bangkok, Beijing . . . Tel Aviv, Jerusalem, Athens, Cairo . . . Your fantasy about visiting one of these exotic places could become a reality with the special travel programs available to employees, families, and friends of General Dynamics. Two tours with variations are available:

Window to the Eastern Mediterranean

- Israel plus Athens and Greek islands — departure dates August 31, September 7, October 5.
- Israel plus Cairo and Nile River Cruise — departure dates October 19, November 4, November 24.

Window to the Orient

- Korea plus Japan and Hong Kong — departure dates October 19, November 4, November 24.
- Korea plus Thailand and Hong Kong — departure dates October 11, November 8.

- Korea plus People's Republic of China and Hong Kong — departure date September 5, October 17.

Brochures are available at Employee Benefits offices. Information is also available from Vivienne Seymore at Ask Mr. Foster Travel Agency, 9340 Clairemont Mesa Boulevard, Suite C. Telephone 560-1217.

Employee Tool Store Opens at Lindbergh Field

An Employee Tool Store will begin operation at Lindbergh Field Monday, June 24. Operated by Gould Hardware, the store will offer an outstanding line of precision and hand tools of excellent quality at reasonable cost. Selection will be limited to work-related tools as listed in the Personal Tool List Requirement. Employees can use payroll deduction for tool purchases.

The Lindbergh Field tool store is located on the west side of building 33 in the former shoe store location. Hours of operation are from 7:00 a.m. to 4:00 p.m. Monday through Friday. Watch for announcement of the Kearny Mesa Employee Tool Store opening scheduled for early July.

Convair Trivia

1. Where does the name "Convair" come from?
2. What aircraft built by Consolidated Aircraft appeared on a Russian stamp in 1935?
3. Who won a \$5 bet by sitting on the landing gear crossbar of a plane landing in San Diego?
4. What year did this headline appear in the San Diego Union: "30,000 Welcome City's New Airplane Firm?"
5. What Consolidated-designed aircraft became the most heavily produced four-engine plane of World War II?
6. What San Diego neighborhood was built as housing for Convair aircraft workers during WWII?
7. What Convair-built aircraft spotted the German battleship Bismarck in May 1941 during WWII and radioed the news to the British Navy?
8. What technology breakthrough in early rocketry made it possible to steer a rocket for the first time?

9. What were the "Gnat" and the "Snoot"?
10. What two fighter aircraft built by Convair used the delta wing?
11. What year did General Dynamics acquire control of Convair?
12. What airplane built by Convair was the first water-based aircraft to fly faster than the speed of sound?
13. What year was the first Atlas flight?
14. Who was the first man to orbit the earth after riding an Atlas rocket into space?
15. What year did we celebrate our 50th anniversary?

Answers next week.

The answers to these questions also can be found in a book about the first 50 years of Convair published on the occasion of that anniversary. The book is a delight for history buffs, particularly those interested in aviation history or a dramatic history of our company. A limited number of copies is now available on a first-come, first-served basis for employees only. If you would like a copy of the book, complete the coupon (right). A copy will be sent to you through in-plant mail.

Safety Shoes Available at Shoemobile

The Safety Shoe Program is back featuring a mobile shoe service. The Hy-Test Safety Shoemobile offers an excellent selection of more than 70 styles in a wide range of sizes. Styles include work, casual, and dress shoes. These quality anchor flange, steel toe safety shoes can be purchased through the payroll deduction program. Hours of operation and shoemobile locations are as follows:

Second Tuesday of the month

Lindbergh Field (west side of building 1)
9:00 a.m. - 5:00 p.m.

Fourth Tuesday of the month

Lindbergh Field (west side of building 1)
7:00 a.m. - 4:30 p.m.

Second Wednesday of the month

AF Plant 19 (near gate 23)
8:00 a.m. - 9:30 a.m.
Kearny Mesa (northwest corner of building 5) 10:00 a.m. - 4:30 p.m.

Fourth Wednesday of the month

Harbor Drive (south of building 66)
8:30 a.m. - 9:30 a.m.
Kearny Mesa (northwest corner of building 5) 10:00 a.m. - 4:30 p.m.

Are You a Phone-a-Phobe?

How many of these problems have you encountered while using our new telephone system?

Muted beeps on the receiver while you are trying to converse with someone. . . A loud warbling sound when you dial certain numbers. . . Fear of losing your party in



Can you name this airplane — the first one ever built by the ancestor company of Convair?

TO: Educational Services, MZ 17-1320

Yes, I would like a copy of the 50th anniversary book.

Name _____

Mail Zone _____

Employee Number _____

telephone limbo while attempting to transfer a call. . . Fear of putting your party on hold. . . Not knowing what it means when your phone rings with one, two, or three short rings. . . Well, fear no more. Help is within reach.

Our Dimension 2000 telephone system is a sophisticated switching network that uses state-of-the-art technology and is designed for easy use. As recently as two years ago, Convair's phone system offered no special features, and the user relied on operator assistance to complete any function on the 1936-built 701 Step Switch system.

Today, the user is in control, and it has never been easier and faster to perform call forwarding, call hold, call transfer, three-way conference, and other sophisticated functions.

Our Telecommunications staff is offering a special one-hour training class that highlights all the system features and culminates with an excellent hands-on session. It's open to all employees who use a telephone on the job, including new hires, supervisors, managers, and those who may need a refresher course. Each attendee will also receive a new dialing instructions folder designed to fit easily under any inplant telephone for quick reference.

For more information on the course, or to pick up your dialing instructions folder, call Bobbie Alexander, 35553.

Calling Maintenance?

Certain information is required when you call in maintenance troubles to the Maintenance Dispatch Centers. Maintenance work orders cannot be issued without the following items:

- ID numbers (also known as "E numbers" or "Capital numbers") for equipment and machinery (ID numbers will be required for cranes and crane bridges)
- Location (plant, building, floor, and accurate column location)
- Equipment name
- Requestor's name, phone extension, and department number
- Description of problem

Make note of the maintenance work order number you will be given, and refer to this number if follow-up is required.

The Maintenance dispatcher issues the work orders, but does *NOT* assign or prioritize the tasks.

From the Health-Fitness Center

5:30 Workout. June 26, CRA auditorium
Shape Up. July 1, Kearny Mesa, 4:30 p.m. Lindbergh Field (Harbor Island). Call for a reservation.

For more information, contact the CRA Health-Fitness Center, 39921.

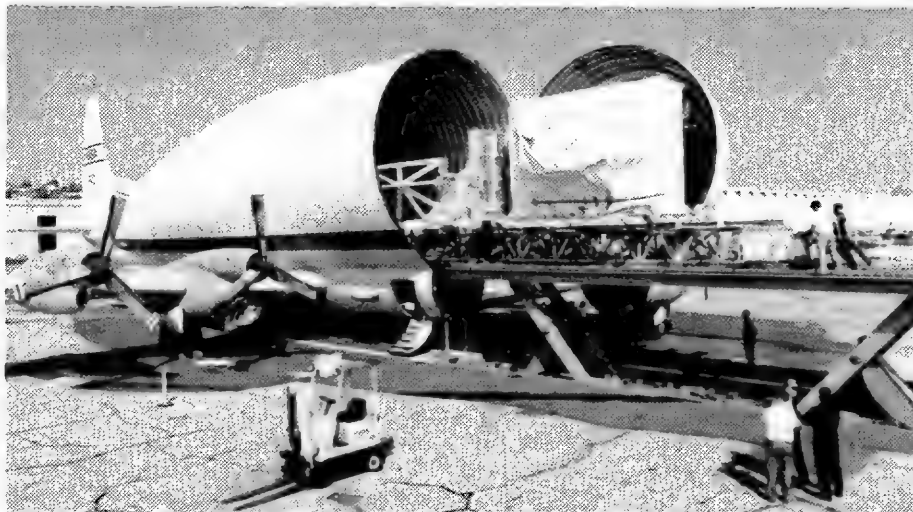
Employment

For the week ending June 14, employment was 12,166.

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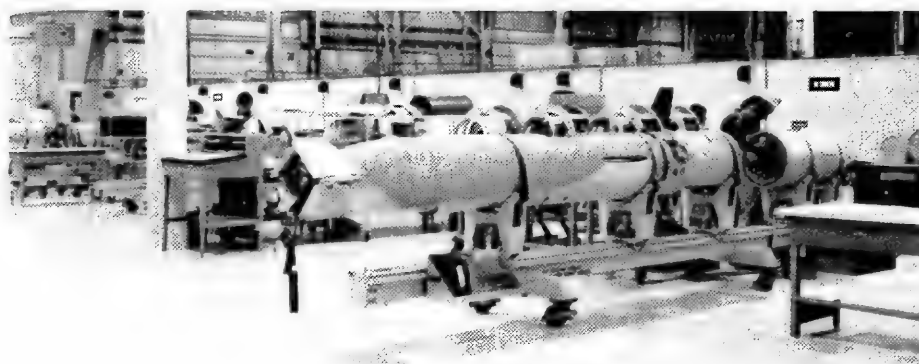
CISS Leaves for Eastern Test Range



The first flight Centaur Integrated Support Structure was shipped to Florida June 26, marking another milestone in the Space Systems Division Shuttle/Centaur program. Convair Transportation department riggers loaded the CISS, mounted on a special transport pallet, into NASA's "Super Guppy," which had been parked inside plant gates at the north end of the flight line at Lindbergh Field. The Guppy drew curious looks from passers-by, its huge nose section open to receive the load. The airplane is a one-of-a-kind, specially modified Boeing YC-97J Stratocruiser, outfitted with four Pratt & Whitney T-34-P7WA turbo prop engines. The fuselage was modified to a 25-foot diameter for carrying oversized cargo, mainly large space hardware. The Guppy is unpressurized and cruises at approximately 285 miles per hour. It has a maximum 40,000-pound capacity and a 560-mile cruising range.

The CISS supports the Centaur G-Prime inside the shuttle cargo bay for the Galileo mission to Jupiter, scheduled for launch in May 1986. The CISS will enter a test phase at Eastern Test Range.

Cruise Missile CMA Area Relocates



The Cruise Missile program Contractor Maintenance Assembly (CMA) area has moved from the Final Assembly area to a new location in Kearny Mesa building 5 at column C-8 on aisle D. CMA's responsibility is to recertify cruise missiles and return them to operation after scheduled maintenance tasks are completed. The area also refurbishes missiles and reconfigures production Tomahawks for test flights. The new CMA area is an expanded 12,000-square-foot area, that allows for better task breakdown — an important consideration as the number of missiles requiring recertification grows.

Software Engineering System Has New Location

Western Center's Software Engineering System (SES) has moved to a new location at Kearny Mesa building 5, column H1-3 (the old RTS center). Their new phone numbers are 49722 (software support) and 49726 (hardware support). SES is an on-site computer resource, in use corporate-wide. It provides an integrated hardware, software, and procedural system that can improve productivity, reliability, and maintainability for various programs or projects in our divisions. From software development to data management to word processing, SES is ready to support your needs.

Key Engineering Appointments Announced

A number of key Research & Engineering appointments were announced on June 21 by Convair and Space Systems divisions.

Convair Division Appointments

Nelson Ilgenfritz, director - Avionics.

Frank Anthony, director - Systems Analysis.

Brad Sowers, director - Advanced Systems.

George Mavko, replaces Brad Sowers as program manager - Cruise Missile Advanced Guidance.

Jim Reed, manager - Systems Predesign and Guidance Technology, a new organization formed by consolidating Advanced Missile Systems, Navigation Technology, RF Technology, and EO Technology.

Developing Programs and Operations Research have been realigned from Program Development to Research & Engineering.

Space System Division Appointments

Sid Jones, director - Advanced Space Systems.

Mike Felix, director - Systems Analysis.

Larry Wray, manager - Systems Engineering.

Lee Browning, manager - Advanced Structures and Design.

Bob Di Nal, director - Avionics.

Don Nirschl, manager - Test & Evaluation.

Gary Kruse, director - Administration, Data and Configuration Management.

Gene Perkins, responsible for Engineering Computer Systems.

Buckle Up, San Diego

Last year in San Diego County, 24,094 people were injured in automobile accidents. Three hundred twenty four more were killed. Nearly half of these injuries and deaths occurred within the San Diego city limits.

Of these, 10 children from infancy through 15 years of age were killed in county accidents. More than 1,500 were injured.

According to the California Highway Patrol, well over 50% of injuries and deaths could have been prevented if victims had been wearing seat belts or were properly buckled into child safety seats.

People have many reasons for not wearing safety belts in their cars, and the San Diego Safety Council has prepared a list of the most commonly given reasons, which we will occasionally reprint in the *Weekly Log*.

Myth: My seat belt is so loose, I don't see how it could possibly work in an accident.

Fact: Seat belts are designed to allow you to reach necessary driving controls. Under emergency conditions, the latching device locks into place under the force of impact.

World Events Create Need for Security Awareness

With stories of terrorist activities so widespread in the newspapers and on television, it's a good time to consider precautions we can take to maintain a safe and secure environment for employees inside the plant as well as those who travel for the company on business.

Be alert to inquiries over the telephone from callers you don't know. No information should be given out in response to a general inquiry unless the caller is known — and then only if that caller has a need to know the information. For example, no information should be given out about an employee's travel plans or scheduled itinerary. Requests for a fellow employee's home address, telephone number, and other personal information should be turned down unless you know the caller.

In general, always be sure you know the person you are talking to on the telephone if you answer any kind of inquiry about business-related matters. If you receive telephone calls of a suspicious nature from outside the plant, report them to Industrial Security "Investigations," 38171. Calls from outside the plant inquiring about program-related information should be referred to the Public Affairs office, 39354.

Western Center Training Facility Open House

Departments that can benefit from knowing what Western Center's Computer-Related Training department has to offer should note that CRT will be hosting two open houses at their new Viewpoint Plaza training facility. On July 10, from 3:00 to 6:00 p.m., and on July 11, from 11:30 to 4:30, they will be demonstrating hardware, software, and training tools. The training facility is located at 9630 Ridgehaven Court in the Viewpoint Plaza complex. For more information, call 65738.

Never Learned to Type?

With the widespread use of computers in the workplace, there is a need to sharpen typing skills. Educational Services has a self-paced keyboard proficiency course for people who never learned to touch type or for those who want progress beyond the two-finger hunt-and-peck system. Upcoming classes are being held at Kearny Mesa from 9:00 to 11:30 a.m. For information, call Patrice Sanasac, 39558.



What's as American as apple pie, baseball, and the 4th of July?

Watch next week's Bluesheet.

Fireworks Still a Danger

Last year, there were 493 injuries from fireworks in California. In addition, California fire departments responded to 975 fires connected with fireworks, costing the state \$990,080.

The American Red Cross, San Diego/Imperial Counties Chapter, suggests you have a safe Fourth of July by enjoying colorful and spectacular public fireworks displays. Don't attempt to do your own.

Studies show the majority of fireworks injuries happen to males under age 19. These injuries most often include second- and third-degree burns, damaged or lost eyesight and/or hearing, and loss of hands or fingers. According to the National Fire Protection Agency, principal causes of accidents with fireworks include malfunctions, improper storage, setting off fireworks in glass bottles or other containers, and unsupervised children playing with fireworks.

Here are some safety tips:

- Don't stand by and watch others using fireworks. You could be injured if there is a misfire even as far away as across the street.
- Don't pick up or touch any fireworks found, even long after July Fourth. Instead, note their location and report the discovery to the fire department.

Answers to Last Week's Trivia Questions

Response to last week's offer of a limited number of 50th anniversary books has been tremendous. Books will be mailed in the order that the coupons were received, but the supply has run out. Here are the answers to the 15 questions on Convair history.

1. Convair nickname formed from names of two parent companies: Consolidated and Vultee Aircraft Companies.

2. The Fleetster appeared on a Russian stamp in 1935 to commemorate its role in the rescue of a Russian icebreaker in the Arctic.

3. Lt. James Doolittle won \$5 by sitting on the landing gear crossbar while a plane landed in San Diego. He was grounded for one month.

4. 1935.

5. B-24.

6. Linda Vista.

7. A Catalina aircraft flown by the RAF was patrolling the North Sea when the crew spotted the German battleship *Bismarck*. The *Bismarck* turned its guns on the Catalina, whose crew patched the damage in flight and radioed the location of the *Bismarck* to the British navy.

8. Swiveling engines.

9. Grat and Snoot were early guided missiles, forerunners of the Terrier.

10. F102. F106.

11. 1953.

12. Sea Dart.

13. First Atlas flight - 1957.

14. John Glenn.

15. 50th anniversary celebrated in 1973.

Employment

For the week ending June 21, employment was 12,181.

CONVAIR *Weekly Log* SPACE SYSTEMS

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Atlas/Centaur Successfully Launches Intelsat V-A

Atlas/Centaur AC-64 successfully launched the Intelsat V-A (F-11) communications spacecraft into a 19,413-mile geosynchronous transfer orbit on June 29 at 8:44 p.m., EDT from Complex 36B at Cape Canaveral.

Intelsat V-A (F-11) is the largest and highest capacity commercial communications spacecraft built to date, capable of relaying up to 13,500 two-way telephone calls and two color TV channels simultaneously. It is the first spacecraft to reuse frequency bands by spatial separation and polarization.

The 4,400-pound spacecraft is 21 feet high and 52 feet wide with its solar wings deployed. Ford Aerospace and Communications Corporation built the spacecraft for Intelsat. One more Intelsat V-A spacecraft is planned for launch by Atlas/Centaur this year.

Atlas G/Centaur AC-64 is the latest and most powerful version of Atlas/Centaur. The vehicle stood 137.6 feet tall at launch and weighed 360,500 pounds. A number of performance improvements were demonstrated by this flight, which will keep Atlas/Centaur in the forefront of expendable launch vehicle technology.

Mystery Airplane Identification

The photograph of the vintage airplane in the June 24 issue of the *Weekly Log* is of the TW-3, Convair's first product. The TW-3 was an army trainer and was the first American aircraft built of steel tubing. It was powered by a 180-hp Hispano-Suiza engine, had a cruising speed of 90 mph, top speed of 110, and a range of 270 miles. The plane was a sturdy ship hampered by one drawback: side-by-side seating crowded the instructor and the student and badly restricted their vision.

Employment

For the week ending June 28, employment was 12,203.

To All Xerox 610 Users

If you use a Xerox 610 typewriter and have not yet attended training classes, the month of July is make-up month. Any person now using the 610 who has not had training should call Dean Dahl at 34805 to schedule classes. Only current users will be enrolled for the training. Classes will be held in Kearny Mesa's building 17.

Smith Speaks at UCSD Graduation



Adrian Smith addresses a special group of UCSD graduates.

Adrian Smith, a General Dynamics Engineering chief, was selected by his classmates to represent them at the June 15 graduation ceremonies for UCSD Extension's Executive Program for Scientists and Engineers (EPSE). This is the second year in a row that a General Dynamics employee was selected.

EPSE is an annual nine-month integrated educational program funded totally through fees paid by the participants' employers.

Limited to 30 participants, the program addresses the special needs of high-level scientists and engineers, preparing them to manage and lead technology-oriented or-

ganizations.

In addition to Smith, two other employees participated in this year's program: Vern David, manager-Cruise Missile Quality Assurance, and Robert Parker, Engineering chief.

Security Tip

Access to classified information can be defined as the ability to read, see, or hear such information. Security clearances granted by the Department of Defense allow individuals access to classified information on the basis of a need to know.

A question may arise about physical access to areas where such information is kept. Basically, a clearance cannot be justified simply because an individual needs to enter areas where classified information is kept. The exception to this is a specifically designated area where it is not possible to prevent visual access to classified information. In the latter case, a clearance would be required.

Employees who work in areas where classified information is kept should be aware that employees without clearance or "need to know" may be in the area. Specific security measures must be followed to prevent them from obtaining knowledge of classified information when they are in the area.

Lindbergh Field Gets Telephone Training

The Telecommunications staff is now offering the popular telephone training course to personnel at Lindbergh Field. The one-hour classes are scheduled every Friday.

The instructors will review the features of our Dimension telephone system and will discuss when and how to use them. A special hands-on session will also be included.

For more information or to register, call Bobbie Alexander, 35553.

NMA/CRA ANNUAL PICNIC 10 a.m. to 5 p.m.

General Dynamics
FAMILY
FUN-DAY

Sunday, July 21, 1985

MISSILE PARK, KEARNY MESA

U.S. Savings Bond Campaign — July 15-26

The combined Convair, Space Systems, and DSD-Western Center U.S. Savings Bond Campaign kicks off next week. Between July 15 and 26, you'll have the opportunity to enroll in our U.S. savings bond payroll savings plan. If you have hesitated about buying bonds in the past, read on. You'll be pleasantly surprised at the current market-based interest paid on Series EE bonds.

It's So Simple

Between July 15 and 26, you will be given the opportunity to enroll in the U.S. savings bond payroll savings plan if you are not already a member. If you are a member, you may want to increase your savings. Here's why.

The payroll savings plan is simple. You arrange to set aside a certain amount of money each pay period to buy U.S. savings bonds by filling out a blue bond card, which will be supplied by your supervisor. For example, you invest \$5 per pay period for a \$50 bond. After five pay periods, you will accrue enough to buy the \$50 bond. (The purchase price of a bond is one-half its face value.) The Payroll department completes the transaction, and the bond is sent to your home.

The payroll savings plan is flexible. You can save as little as 50 cents a week, but more if you want your investment to grow faster. The choice is yours.

Sample Bond Purchase — What Your Money Will Be Worth

Weekly Savings	In Ten Weeks	At 10% Projected Market-Based Rate	
		In Five Years	In Ten Years
\$ 2.50	\$25.00	\$40.74	\$66.38

*Sample is based on \$25 purchase price for \$50 bond.

Bonds are a Good Deal . . .
Buy them for your vacation fund
...for your retirement
...for your child's education



**Head 'em up,
Move 'em out.
Bond Drive!**

Interest in Bonds Is Growing

Unlike the interest rates offered on earlier bonds, the Treasury Department pays interest on Series EE bonds based on the current market rates — 85% of the same rates that you would earn by investing your money in, say, Treasury bills. The interest is compounded semiannually and paid when bonds are redeemed. And, your investment is guaranteed to earn no less than 7.5%. Furthermore, if your bonds are lost, stolen, or destroyed, they will be replaced with the original issue date, and you won't lose the accrued interest.

Currently, the interest paid on Series EE bonds purchased between May 1 and October 31, 1985 is 9.49%. The semiannual rates since November 1, 1982 have been consistently good, too: 11.09, 8.64, 9.38, 9.95, and 10.94, which averages out to 10%.

Tom Madaras of the U.S. Treasury Department says, "With these numbers in mind, it is a good bet that Series EE bonds purchased now will earn close to 10% if they are held five years or longer."

To earn market-based interest, bonds must be held five years or more. Bonds held fewer than five years earn interest on a fixed, graduated scale.

You may get better interest rates on your

investment elsewhere, but the payroll savings plan offers you automatic savings with market-based interest, a minimum guaranteed rate, tax advantages, and the backing of the U.S. government.

Bonds Are as American as Apple Pie . . .

Probably more so. In one form or another, bonds have been offered to investors since 1776 to buy and develop territory, build railroads, construct canals, and acquire land beyond the boundaries of our country. Alaska is a good example.

U.S. savings bonds, as such, went on sale in 1935. Dubbed "Baby Bonds," they were introduced as a way of promoting broad public participation in government financing by making federal bonds available in small denominations. They were tailored for the nonprofessional investor.

Those early bonds were designed to make it impossible for any buyer to suffer loss under any conditions. The bonds were offered with a schedule of fixed redemption values, redeemable at any time after a short holding period. They were issued in registered form and could be replaced in the event of loss or destruction.

Series E bonds came into being in May 1942, and the current, familiar Series EE bonds debuted in January 1980, sporting a new look and a higher interest rate.

Bonds are a Good Deal...

- You get market-based interest — currently 9.49% — for a minimum investment.
- Interest never goes below 7.5%, and there is no upper limit.
- They help our economy by helping the national debt. More than six million Americans are buying bonds every payday through payroll savings plans. Join them in taking stock in America.

CONVAIR Weekly Log SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

AC-64 Film Project a Success



Left to right are John Niesley and Craig Fitz Gibbon, Space Systems Division, and P-3 Orion crew, Lt. Cdrs. Mike Swanton and Dean Burton.

During the Atlas/Centaur (AC-64) launch on June 29, Space Systems Division representatives took part in a unique project that could have far-reaching implications for future commercial and government launch vehicles. For the first time, General Dynamics had airplane surveillance during a launch to film the reentry of the Atlas booster section from separation to splashdown, and to demonstrate future ship recovery techniques.

Craig Fitz Gibbon, Atlas/Centaur program office, was aboard a U.S. Navy P-3 Orion reconnaissance aircraft, 350 miles downrange from Cape Canaveral, to take part in the project. Also on hand was the ship *Independence* operated by Morton-Thiokol, used in recovery operations for the space shuttle boosters.

Before the space shuttle era, the word "expendable" was automatically associated with the words "launch vehicle." The filming project is part of a cost-reduction program to explore the possibility of recovering portions of the Atlas vehicle and rebuilding them for future use. Interest is focused on the two costly rocket engine systems in the booster section.

Today, special radar tracking enables us to predict where splashdown will occur. During the flight of AC-63 in March, for example, prediction of where the booster section would come down was accurate to within one nautical mile. This makes future recovery operations more possible.

People in the News

Delia Leonessa, Avionics Management Support, won the Senior Olympic Championship gold medal in women's epee at the 1985 USFA National Fencing Championships held in Cleveland May 31 through June 9. Seventy-five women fencers from around the country participated in the epee

event, ending with Delia's gold medal triumph by single elimination of the last eight finalists. Delia represented our CRA Fencing Club.

Fred Burkhardt was awarded the Society of Allied Weight Engineers (SAWE) Ed Payne Award at the 44th annual confer-

ence in May in Arlington, Texas. The award is presented to engineers, 35 years of age or younger, who have made significant contributions to the weight engineering profession. Fred is currently a weights engineer in the Space Mass Properties group and has held numerous positions with SAWE locally and regionally.

Family Fun Day, Next Sunday

You can't beat the prices at this year's Family Fun Day picnic, co-sponsored by the NMACC and CRA. Admission is free, 25 cents will get you a hot dog, and 10 cents a ticket for your child to ride the carousel or train. Best of all, a \$1 donation will get you a ticket for the special drawing grand prize, a 1985 Ford Ranger truck. You will receive a tab card, which you should bring to the registration booth at Missile Park the day of the picnic. The card will be your registration for the cash drawings, and it will also identify your children for their special drawing.

The picnic is Sunday, July 21, from 10:00 a.m. to 5:00 p.m. All General Dynamics employees, family, friends, and retirees are invited to enjoy a day of fun at Missile Park. A reminder from the picnic committee: you may want to bring lawn chairs to ensure yourself a place to rest your active feet.

Many activities will be available during the day including games, bingo, volleyball, softball, golf putting contests, and music. See you at the park!

Paving the Way

Starting Tuesday, July 16, the south half of Lot 11 at Lindbergh Field will be repaved. The work will be done in stages so that the impact on parking will be lessened. People who park in this lot should be aware that areas will be roped off as the work progresses. The repaving project will last until Saturday, July 20. Thanks for your patience.

The New Glamour of U.S. Savings Bonds

Excerpts from *Forbes*, July 1, 1985.

Three things are adding a lot of luster to U.S. Savings Bonds these days: falling interest rates, likely changes in federal income tax rates and the Law of the Stopped Clock. Savings Bonds, you say? Read on — these are interesting times.

You will recall that in November of 1982 an embarrassed Congress finally allowed the Treasury Department to index interest on new EE bonds to a rate equal to 85% of that paid on five-year Treasury bonds. By itself, no big deal. But, to woo savers, Congress set a minimum rate for the bonds — 7.5%, provided holders kept the bonds at least five years. That rate sounded paltry in 1982, but it's far from that today. The current interest rate on 13-week T bills is under 7%.

... [Since then] the EE bonds have done nicely, at least for savers in for the long pull. The new bonds have outperformed six-month Treasury bills and at least equaled money market funds since their inception in November 1982. The average return on Series EE since the new rate system went into effect is 9.92% (the rate is adjusted every six months).

But what about the present? The EE business is booming. Let's go back to the three reasons cited above for the bonds' new popularity.

Falling interest rates. Series EE bonds purchased between May 1 and Nov. 1, 1985 offer a 9.49% return, down from 10.94% for the previous six-month period. That compares with a recent 8% return on money market funds and only a 7.25% return on six-month T bills. (Remember, the rate on EE bonds cannot drop below 7.5%.)

Of course, you get those market rates only by holding the bond at least five years. Otherwise, you get a maximum of 7.26% for bonds held just a shade under five years, down to as little as 4.2% for bonds held the minimum of six months.

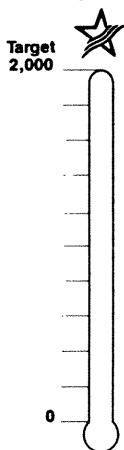
But couldn't you do better simply buying five-year, fixed-rate Treasury bonds and holding them until maturity? Maybe, but you would have to time your purchase right. The current rate on five year notes is 9.35%. If interest rates go through the roof again, the interest rate on Savings Bonds will be automatically ratcheted upward. Not so with most other government securities. Further, interest on five-year Treasuries is paid — and taxed — annually.

Which brings us to the second reason Savings Bonds are taking on added allure.

The new tax proposal. Interest earned on U.S. Savings Bonds is not paid until the bond is cashed in (although the interest is figured and compounded every six months). Nor is federal tax payable until the bond is redeemed. So, high-bracket earners can use Savings Bonds to defer interest income until the fall into lower tax brackets. For example, an investor who is in the 25% bracket now can buy U.S. bonds and pay no tax on the income until as late as 1995. But the investor could cash in the bond as early as June 1990 and still receive market-rate interest for the entire holding period.

1985 U.S. Savings Bond Campaign

July 15-26



Our target is 2,000 new savers. Look for thermometer posters telling how your department and the divisions are doing.

The law of the stopped clock. Even a frozen timepiece is right twice a day. Similarly, over a decade, it's pretty safe to say that the interest rate "clock" that is fixed at no lower than 7.5% on Savings Bonds will be right on the money — or even better. In fact, rates on some short-term Treasuries have fallen below 7.5% this year. So during those periods you will earn more than market rates.

To these possible advantages, add the fact that there are no state or city income taxes on the bonds, no sales or redemption fees and no management charges. There is also instant liquidity at virtually any bank and, of course, safety.

U.S. Savings Bonds

Summer Full of Fun Drawings

Daily drawing July 15 - 26

Five winners each day

- * *GD athletic jackets*
- * *Zoo passes*
- * *Sea World passes*
- * *Wild Animal Park passes*
- * *Movie tickets*

Big end-of-campaign drawing

- * *Pair of tickets to anywhere in the continental U.S. that American Airlines flies*
- * *\$1,000 U.S. savings bond*
- * *Pair of '85 Chargers season tickets*
- * *Portable color TV*

All current and new bond purchasers are eligible for all drawings. Daily drawings will be conducted every morning during the campaign and will include all new sign-up cards received by the end of each previous working day.

New Telephone Prefix for Kearny Mesa

Due to the growth of the divisions and the continued expansion and upgrade of our telecommunications network, a new prefix has been provided by Pacific Bell to meet our present and future needs.

Effective today, Kearny Mesa numbers 573-3xxx/4xxx/5xxx will change to the new prefix 547-3xxx/4xxx/5xxx.

The first digit of these five-digit inplant extensions will change from 3 to 7. The last four digits will not change.

NOTE: The Kearny Mesa and Lindbergh Field emergency numbers will remain the same: 33555 and 25555.

For outside callers, an intercept tone will inform them of the new prefix. Don't forget to reprogram your call forwarding feature for the new prefixes.

A more detailed description of the new changes is included in an updated Dialing Instructions folder, which will be distributed this week. In addition, the new inplant phone directory will be distributed this week.

For more information, call Telecommunications, 75115.

Employment

For the week ending July 5, employment was 12,228.

July 22, 1985

CONVAIR *Weekly Log* SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

Another KC-10 Fuselage Delivered

On July 10, KC-10 fuselage 419 was delivered on schedule to Douglas Aircraft in Long Beach, bringing the cumulative total of KC-10 fuselages delivered to 41.



Bill Cummings, N/C Systems (center), receives an Extraordinary Achievement Award from Dick Schweitzer, group engineer - N/C Systems (left); and Norm Pearl, manager - Production Engineering. Bill was nominated for the award for his leadership and technical guidance in N/C programming on the Shuttle/Centaur G and G-Prime programs.

New Fall 1985 Tours Offered

General Dynamics is introducing two new itineraries to Korea/Hawaii and Israel in its continuing efforts to provide more and better travel opportunities for its employees, retirees, their families, and friends. These trips are shorter and more affordable than the longer tours offered earlier this year, yet they are just as exciting and interesting.

The trip to Korea and Hawaii combines the best shopping and sightseeing features of Seoul, Korea, site of the 1986 ASEAN Games and the 1988 Olympics. After leaving Seoul, you will spend three days at the elegant Hawaiian Regent Hotel across from Waikiki Beach and experience this paradise of the Pacific.

Departure dates are September 25, October 23, November 27, and December 11, 1985 with a price of \$1269 from Los Angeles, which includes all air travel from the gateway, hotel accommodations, breakfast daily and several special meals, escorted sightseeing, and all transfers and portage.

The 10-day Israel itinerary will take you to the best of the Holy Land, including visits to the old city of Jerusalem, the highlights of the new Jerusalem, Masada, the Dead Sea, Bethlehem, Nazareth, an overnight on a working kibbutz, Jericho, the Jordan River, and many other places.

Departures for this trip are September 14, October 12, November 23, and December 21. Prices range from \$1389 to \$1539.

As an added incentive, Ask Mr. Foster Travel Service is offering a free trip to anyone who forms a group of 15 paying passengers for the Korea/Hawaii trip and 20 paying passengers for the Israel trip.

Brochures for these tours are being sent to all employees and retirees in late July. Advance information can be obtained or reservations made by calling the Ask Mr. Foster Travel Service toll-free number (800) 624-1341. These tours are also available to all General Dynamics subcontractors and associate contractors.

Help Cut Our Utility Bill

The total in-plant utility bill for June was \$1,615,378, up 11% from last year. Electricity alone cost \$1,392,662, or almost \$120 for each employee.

Lighting is one of our most expensive consumers of electricity. We can help reduce this cost by stopping obvious waste. How?

- Turn on only those electric lights that serve your work station, not the whole floor. Most areas have sectionalized switching. Learn the location of your switch.
- Turn off electric lights when natural light is adequate or when you leave your work bench, desk, drawing board, or office.

Telephones Made Easy

Even though there have been numerous changes to our telephone system recently, including last week's Kearny Mesa prefix change, our Dimension 2000 system's features are still not being used to their full potential.

In an effort to keep our employees updated on current and future system changes, the Telecommunications staff is offering a one-hour telephone training class at the Kearny Mesa and Lindbergh Field plants.

Although you may feel competent in using your phone, chances are that the class will provide knowledge of a feature that could make your communications efforts a little easier, and perhaps let you in on some of the future telecommunications developments that will have an impact on everyone who uses a phone in his or her job.

For registration information, call Bobbie Alexander, 75553.

June Retirees

Thanks and best wishes for a happy retirement go to these employees who retired in June:

Name (Dept.)	Years of Service
William H. Boehmler (608-0)	
Engineering Specialist.	6
Samuel W. Botta (985-1)	
Engineering Specialist.	26
William H. Brown (431-0)	
Tooling Supervisor.	37
George W. Durkee (432-0)	
Tool & Operations Planner	39

Continued

Savings and Stock Plan Values for May 1985

	1983	1984	1985
Salaried			
Government Bonds	\$ 3.4923	\$ 3.6977	\$ 4.2876
Diversified Portfolio	3.1051	2.7811	3.9181
Fixed Income	1.5006	1.6843	1.8947
Hourly			
Government Bonds	3.4906	3.6960	4.2875
Diversified Portfolio	3.2495	2.8271	3.9695
GD Stock	\$52.3750	\$45.0000	\$71.7500

—OVER—

William J. Ellison (666-0)	
Material Liaison Representative. . .	34
Arnalde P. Flores (253-2)	
Plumber	10
Antonio J. Guercioni (250-2)	
Plumber	15
William R. Harger (661-0)	
Engineering Manager.	30
Lloyd D. Heaton (250-2)	
Facilities Engineer.	3
Glee E. Huff (253-4)	
Custodian	16
Peter M. Kaufenberg (015-0)	
Radial Drill Press Operator	33
Paul W. Kellett (979-1)	
Launch Service Mechanic	29
John D. Kimble (253-2)	
Custodian	17
Woodrow W. Lahr (612-0)	
Senior Engineer	20
Gladys Lewis (268-0)	
Logistics Administrator	26
Dora D. McGregor (110-1)	
Secretary.	25
Clifton W. Meinsen (046-0)	
Drill Operator	44
Robert B. Montague (251-0)	
Operations General Supervisor. . .	27
Raymond Niski (808-0)	
Chief Subcontracts Admin.	36
Otis D. Robertson (242-0)	
Program Control Specialist	32
Harry D. Sewell (137-0)	
Plant Protection Officer	29
Harold B. Stevens (250-5)	
Crane Rigger	25
Donald C. Worsnup (985-4)	
Launch Service Floor Mechanic. .	29

It's In The Cards

Dorothy, Rhett, The Duke, and Bogey are not the only stars in this year's U.S. savings bond campaign. You can be a star, too. Between July 15 and 26, five names will be drawn daily to receive prizes — 50 prizes in all during the campaign. That's not all. At the end of the campaign, new and current bond purchasers will be eligible for the grand prize drawing:

- **Two round-trip American Airlines tickets good anywhere in the continental United States**
- **\$1,000 U.S. savings bond**
- **Two Chargers season tickets**
- **Color TV**

New savers: as soon as you sign your payroll savings plan card, you will be entered into the daily prize drawing. Current participants: your name is already entered via a preprinted card. If your name is drawn during the daily prize give-away, you'll still be eligible for a grand prize.

1985 U.S. Savings Bond Campaign July 15-26



Our target is 2,000 new savers. Look for thermometer posters telling how your department and the divisions are doing.



Some daily drawing winners at Kearny Mesa: (left to right) Shulamite Yuan (Dept. 683), Jeffrey Tino (262), Kevin Snoddy (639), and Rosalind Owen (111-0).



Graphic Reproduction, represented by (left to right) Robert Casiple, Linda Birse, and David Snider, is part of Communication Services' fine showing halfway through the U.S. savings bond campaign. As of July 18, they had 95% participation, as illustrated on their official bond drive thermometer poster.

Employment

For the week ending July 12, employment was 12,214.



1984 bond campaign drawing winner Greg Mink (right) draws cards for daily drawing number three. Greg won the grand prize last year — a trip to see a space shuttle launch. He is helped by Tom Georgi, 1985 campaign co-coordinator for Space Systems Division.



Some daily drawing winners at Lindbergh Field: Front — Brenda Lizana (437-0) and Tom Edwards (250-2). Back — Bill Dickey (Operations bond campaign coordinator), Chat Lertpai-chaiyon (015), Bill Glenzer, and Jim Macoubray (coordinators).

Bond Drive Drawing Update

Here are the winners from the first three daily drawings:

General Dynamics Athletic Jackets: *Tom Edwards* (Dept. 250-2), *Kevin Snoddy* (639-0), *Tom Peterman* (Dept. 431).

Passes to San Diego Zoo: *John De Bartolo* (617-1), *Rosalind Owen* (111-0), *Robin Boyd* (037).

Passes to Sea World: *Brenda Lizana* (437-0), *Brad Dassonville* (554-8), *Shulamite Yuan* (683).

Passes to Wild Animal Park: *Chat Lertpai-chaiyon* (015), *Jeffrey Tino* (262-0), *Robert Naish* (038).

Movie Tickets: *Jesus Ortiz* (762), *K.S. Kanegawa* (696-0), *Lillian Truex* (136).
Seven more drawings to go.

CONVAIR *Weekly Log* SPACE SYSTEMS

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A Challenge Met: First Zero-Defect TEL

In April, DCASPRO General Dynamics and the Convair Ground Launched Cruise Missile program management people met to discuss inspection escapes on GLCM transporter-erector launchers and launch control centers presented to the government for acceptance. Following the meeting, DCASPRO Commander Capt. John McKechnie wrote a letter to Convair General Manager John McSweeney, challenging the company to produce GLCM hardware with no defects, as does our sister division, Land Systems, in the case of the M-1 main battle tank.

Only one month later, TEL 45 was presented to the government for acceptance, and it passed with flying colors: zero defects! The unit was delivered to the Air Force and is now undergoing systems integration testing before being deployed in Europe.

To recognize the outstanding efforts of the Convair team at Plant 19, DCAS presented Convair a certificate of congratulations for the hard work and commitment to quality demonstrated by the cruise missile production, inspection, and support personnel.



First- and second-shift GLCM TEL/LCC employees got together at Plant 19 on July 25 to hear words of commendation for the zero-defect TEL recently delivered to the government.

Have a Safer Summer Through Red Cross Classes

When your family takes a camping trip, goes to the beach or on a picnic; when the neighbors gather for a barbecue on a warm summer evening; when you are spending lazy summer days at home with the kids — are you prepared for an emergency?

The Red Cross San Diego/Imperial Counties Chapter is offering a number of health and safety classes this summer, including Cardiopulmonary Resuscitation (CPR), CPR Review, CPR Instructor, Multi-Media Standard First Aid, Advanced First Aid, Basic Aid Training, Babysitting, Infant Care, Preparation for Parenthood/Lamaze, the Lowdown on Blood Pressure, and various water safety classes.

For registration information, call the Red Cross, 291-2620.

At End of Second Week, Bond Campaign Nears Target

As of the close of business on Thursday, July 25, the count of new savers in the 1985 U.S. Savings Bond Campaign stood at 1,710 with 290 to reach the target of 2,000. Almost 150 departments had reported 100% participation, and 40 more employees were counted as daily drawing winners.

General Dynamics Athletic Jackets: Michael Wrape (Dept. 659-0), Donald Barnett (422-0), Jack Randall (671-0), Yolande Lerner (522-4), and Ellis Roakes (694-0).

Passes to San Diego Zoo: Kathryn Miller (820-1), Fabien Pichon (542-1), Maynard Klos (231-0), David Boggy (117-5), and Paul Appel (626-0).

Passes to Sea World: Rodney Campbell

(473-0), Gerald Hill (633-0), I. Bracamontes (042-0), James Strachan (363-0), and David Baxter, Jr. (195-1).

Passes to the Wild Animal Park: Roberta Zettel (693-0), Bryan Keuler (521-7), Allen Luckey (679-0), Douglas Eve (111-0), and Gamil Sirgy (015-0).

Movie Tickets: Deborah Schroeder (840), Beverly Hudson (521-7), John Trumper (525-0), Clarence Lucas (633-0), and Russell Hamilton (675-0).

The target of 2,000 is in sight. There is still time this week to become a new saver if you have not done so. Join the stars and your co-workers in the climb to the top. Final reporting and tallying will be concluded this week with results reported in the next issue of the *Weekly Log*.

Division Safety Contest Winners Announced

Safety Award Certificates were recently presented to four departments for winning the 1984 safety contest. Presentations are made for the best overall safety record and departmental safety program. The four winning departments are 041 and 046 (DC-10/KC-10 Assembly), 251 (Communications Services), and 463 (Tool Service).



Safety Award Presentation (left to right): Emmett Walker and Herman Fleming (Safety), Alberta Danish (Dept. 463), Clyde Hoofard (Dept. 041/046), Lance Elmstrom (Dept. 251), and Brenda Kuetzing and Jeffrey Stumpf (Safety).

OMF Assembly Training Finale At Vandenberg AFB

Eleven Orbiter Mid-fuselage Assembly employees have capped the OMF training program by spending one day at the Vandenberg AFB space shuttle launch facility. According to Don Evanson, OMF training coordinator, the 11 students were selected to go to VAFB, based on their outstanding performance in class and on the job.

The OMF training program involves employees in the decision-making process and shows them how other departments support them. This type of training has resulted in reduced factory assembly discrepancies and has improved schedule on the spare structure vehicle now being built.

Security Tip

The Industrial Security staff thanks those supervisors and department security representatives who responded to the Employee Security Clearance Reduction Program survey on a timely basis.

Those of you who have yet to complete your survey and submit your report are reminded that Industrial Security needs your input so that we meet our obligation to the government. Departmental responses are required no later than August 6.



On their way to Vandenberg. Front row (left to right): Humberto Esquivel, Jim Onate, Rick Mosburg, Al Hernandez, Don Evanson, Archie Jennings. Back row: Tom Wilson, Hugh McCowat, Lee Koegel, Betty Sullivan, Ray Gaboury, Jeannie Alexander, Dave Jackson, Gary McCrary, and George Theilacker, OMF program manager.

New Program from NMACC: Major Computer System Overview

The technology program offered by the National Management Association Convair Chapter has something new: a joint venture between Convair, Space Systems, and DSD-Western Center that will feature an orientation program on the major computer systems in use within the divisions. The program provides an opportunity to get an overview of such major systems as

PADR, MPL, IMCS, MICOL, POL, AWS, and EIS. The sessions will reveal how the programs are used, how the programming evolves, and how the hardware is used. Speakers are drawn from key personnel within the divisions.

The program is scheduled for August at the DSD-Western Center computer training site at Viewpoint Plaza. Use of the facility enables participants to view displays of actual data through large-scale projections of terminal displays. The programs are scheduled for Wednesdays, August 7, 14, 21, and 28, between 4:45 and 6:00 p.m. Seating is limited. Register early by calling the DSD-WC training center for reservations at 65738.

Two More Patents Won

Two Convair inventors recently won patents from the U.S. Patent Office. Bill Doane (Dept. 617-1) received Patent 4,498,368 for a Tomahawk Cruise Missile fly-through launch tube cover, which creates an airtight seal for the missile before launch. Bruce Bartholomew (Dept. 686) received Patent 4,504,122 for an optical system for time sharing of a laser beam permitting rapid switching of the full power laser beam between two subsystems.



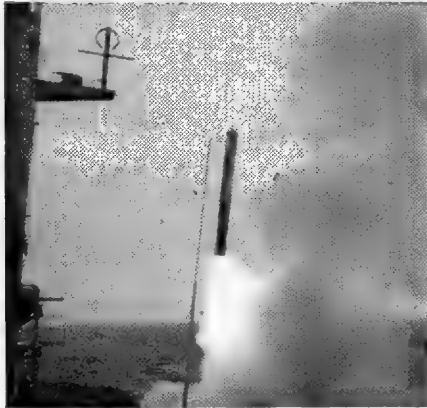
More than 10,000 Convair, Space Systems, and DSD-Western Center people gathered for the annual Family Fun Day sponsored by Convair Recreation Association and the NMA Convair Chapter on July 21. Volunteer chefs kept the hot dogs cooking in Missile Park, and the games and entertainment went on until late afternoon. The finale of the day was when the drawing winners were announced. Anita Heckathorn, Department 753, won the Ford Ranger truck. E. Hernandez, Department 015-0, won the VCR, and Bill McPherson, Department 264-0, won the television set.

Employment

For the week ending July 19, employment was 12,190.

CONVAIR *Weekly Log* SPACE SYSTEMS

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The July 30 Tomahawk cruise missile launch off the coast of Southern California.

Tomahawk Demonstrates VLS and Land-Attack Mission

A Navy Tomahawk cruise missile successfully demonstrated a land-attack mission in a test conducted July 30 at Pacific Missile Test Center Sea Test Range off the coast of Southern California.

Seconds after being launched from a surface ship, the Tomahawk transitioned from boost to cruise flight, flew to a predetermined landfall position on the coast and immediately began to demonstrate its highly accurate navigation capabilities over a 700-mile flight path from the Pacific Ocean to the China Lake Range.

Upon completion of the flight, the missile's parachute recovery system was activated. The missile was safely recovered and will be refurbished for future use in the test program.

This test was part of the development program for deploying Tomahawks in a Vertical Launch System (VLS), a surface ship for carrying 60 to 120 missiles of various types.

The initial operational capability of the VLS for surface ships is scheduled for the summer of 1987.

Ed. Services Moves

As of August 5, the Educational Services Technical Training staff is located on the sixth floor of building 3 while Kearny Mesa building 17 is being refurbished. The department telephone number, 39558, has not changed.

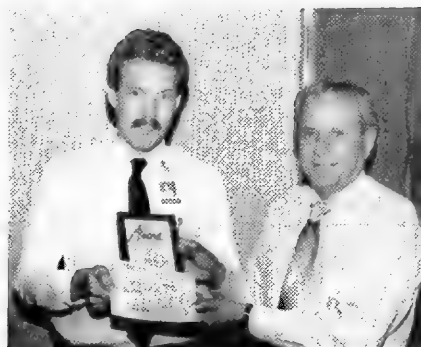
Employee Suggestions Program Says "Thank You" to Evaluators

More than 75 Employee Suggestion evaluators gathered for a hamburger barbecue at the CRA clubhouse on July 29. Honored at the event were Employee Suggestion Review Board representatives, department coordinators, and committee members, who all received certificates of appreciation for their continuing support of the program.

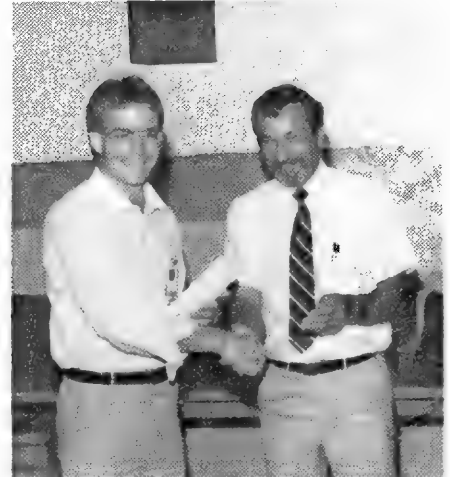
Augie Daddi, division vice president - Industrial Relations, congratulated those present for their role in producing consistently excellent program results. Since January, 2,500 ideas have been processed with an impressive one-in-five approval rate. So far in 1985, employee suggestions have generated \$2 million in savings.

Members of the 13 Employee Suggestion committees, who meet regularly to evaluate suggestions related to specific work areas, got special praise for their help in improving program response time.

The high point of the evening was the drawing for a round-trip for two to Washington, DC, courtesy of USAir, and a three-day stay at the Marriott Crystal Gateway. Neal Haas, an industrial engineer in Department 241-1 and an active reviewer of suggestions in the Department 019 area, was the winner.



Patrick Barrett (left), a corrective action engineer in Quality Assurance, has received a maximum Employee Suggestion award of \$10,000 for devising a tool to hold the cruise missile fuel bladder in place during fuel flushing, thereby preventing damage to the bladder. Barrett's suggestion has been calculated to produce a first-year cost savings of \$137,000. Presenting the award is Rudy Molina, director-Quality Assurance.



Neal Haas (left) accepts Washington trip tickets from Fred Swaffer, Travel Services.

Space Systems Division

New SDI Contract Awarded

Our Space Systems Division was recently awarded a \$16.9 million contract for Phase I of the Strategic Defense Initiative Sagittar Experiment. Sagittar is a five-phase, nine-year, integrated concept definition, technology development, and test program that will demonstrate the feasibility of ballistic missile defense using hypervelocity guns. Phase I of this program will take a preliminary look at the operational requirements definition, system design, and technology development test and evaluation. The Space Systems team includes members from the Pomona Division, Aerojet TechSystems, Titan Systems, and a number of special subcontractors and consultants. Phase I contracts were awarded to the Space Systems Division team and teams led by Boeing and Ford Aerospace. The program manager is Dr. Kenton Whitehead.

The Results Are In

Bond Campaign Goes Over Target!

The results of the combined Convair, Space Systems, and Data Systems Division — Western Center 1985 U.S. Savings Bond campaign are final: 2,285 new savers! The final count exceeds our goal of 2,000 new savers. And, the outstanding re-

—OVER—

sponse by all departmental coordinators, new savers, and current participants led to a 95% overall participation.

The grand prize drawing is scheduled for August 7. Even if you were one of the daily prize winners, you'll still be eligible to win one of four grand prizes — tickets for two anywhere in the continental United States that American Airlines flies, a pair of 1985 Charger season tickets, a \$1,000 U.S. Savings Bond, or a portable TV.



Ya Done Good, Folks!

Attention, Pager Users

The recent Convair telephone number changes have also had an impact on the Convair radio paging system. The new access number is 74113. To page a Convair voice pager from any inplant telephone, dial the access code, wait for the dial tone, and then dial the three-digit pager number.

New NMACC Program: Major Computer System Overview

The technology program offered by the National Management Association Convair Chapter has something new: a joint venture among Convair, Space Systems, and DSD-Western Center that will feature an orientation program on the major computer systems in use within the divisions. The program provides an opportunity to get an overview of such major systems as PADR, MPL, IMCS, MICOL, POL, AWS, and EIS. The sessions will reveal how the programs are used, how the programming evolves, and how the hardware is used. Speakers are drawn from key personnel within the divisions.

The program is scheduled for August at the DSD-Western Center computer train-

Advanced Programs Appreciation Night Highlights

To celebrate the recent successful completion of several program milestones, Advanced Programs held an Employee Appreciation Night at Missile Park on July 26.



"You're a great team!" Bill Vega, division vice president and Advanced Programs director, thanks everyone for their 100%-Plus efforts.

ing site at Viewpoint Plaza. Participants will view displays of actual data through large-scale projections of terminal displays. The programs are scheduled for Wednesdays, August 7, 14, 21, and 28, between 4:45 and 6:00 p.m. Seating is limited. Register early by calling the DSD-WC training center at 65738.

Warren Moreno Says Goodbye to Old Friend



It may be the age of high tech, but sometimes old-fashioned tools do the job just fine. In the case of Warren Moreno's desk — the old wooden variety — it's been doing the job for 30 years. After all those years of faithful service to Warren, the desk has been retired. Warren and friends Cecilia Lozano, Pearl Stanley, Carol Taylor, and Larita Chapman gathered to say



The entertaining program "roast" was emceed by Dave Cormany (left) and Mike Burz.



A big crowd enjoyed those delicious CRA hamburgers and hot dogs — more than 1,000 served!

goodbye the day he cleaned it out to make ready for a new, steel desk. They work in the Planning area of Manufacturing Engineering in Lindbergh Field building 1.

Summer Engineering Training Program Continues

The summer program for engineers will continue with "Modern Control Systems" taught by Dr. Barry Mons. The class, which began August 1, will be held from 5:00 to 7:00 p.m. in building 25 conference room B until September 26. Prerequisites include Course A (Classical Control Systems) or the permission of the instructor. For registration information, call Deanne Dessert, 39938, or come to the first class session.

Hujsak Wins Eighth Patent

Ed Hujsak (Space Systems Division, Dept. 953) has just received his eighth U.S. Patent. His patent, Number 4,524,552, involves a system for unfolding and extending a truss structure to produce a long beam. This beam-extending mechanism can be used to support several communication satellites in one orbital position. Congratulations, Ed.

Employment

For the week ending July 26, employment was 12,171.

CONVAIR *Weekly Log* SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

Convair Division

Tomahawk Production Delivery Update

As of the end of July, we had delivered 335 production Tomahawk missiles against the FY80 through FY84 production contracts. During June, 25 new production missiles were completed and delivered. This was followed by another 26 missiles in July.

In addition to these production missiles, we completed and redelivered another 20 missiles returned for maintenance or re-configuration to support flight tests. During July, we completed and redelivered the first operational missile returned for Type II recertification.

A Type II Recert retests the missile, and verifies that it is ready for return to the fleet or Air Force for an additional deployment period. This delivery activity points to increasing business opportunities in the coming years.

Second Zero-Defect TEL in Two Months

Transporter-Erector Launcher (TEL) 49 was delivered to the government in July for acceptance, and it became the second zero-defect TEL produced by Convair's Plant 19 GLCM production crew in two months.

The next step for TEL 49 is to undergo integration testing at Kearny Mesa.

Kearny Mesa Employee Tool Store Opens

Following the successful opening of the employee tool store at Lindbergh Field in June, a similar store will open today at Kearny Mesa. Both tool stores are operated by Gould Hardware and offer employees an outstanding line of precision and hand tools of excellent quality at reasonable cost.

Selection is limited to work-related tools, and employees can use payroll deduction for tool purchases.

The Kearny Mesa tool store is located just east of building 5. Both tool stores are open from 8:00 a.m. to 5:00 p.m., Monday through Friday.

Automated Warehouse System Passes Acceptance Testing

The new Automated Warehouse System (AWS) in Kearny Mesa building 5 — the first of its kind in the corporation — has successfully passed acceptance testing and has begun actual part loading. During acceptance testing, the system demonstrated its readiness to operate in a production environment. The test demonstrated the system's impressive ability to process more than 1,950 pans per shift. Additionally, during eight hours of reliability testing, the system successfully met the 96% up-time requirement.

The miniload portion of AWS contains five cranes that travel on rails at high speed up and down the aisles of the parts distribution area. Controlled by operators at computerized work stations, the cranes retrieve any of the more than 15,000 pans contained within the floor-to-ceiling racks of the system, enabling operators to take, count, or replenish parts from the pans. The system is capable of storing more than 450,000 parts numbers. A bulkload area, used to store larger palletized items, is also contained within the system.

The system is controlled by a dedicated computer system that interfaces with five

major computer data bases in use throughout the division. The system will be capable of automatically updating all affected division systems.

All Kearny Mesa OSP (outside-purchased parts) and WIP (work in process) stockrooms and other divisional stores will be consolidated into the AWS.



Representatives of departments contributing to the successful development of AWS. Front row, left to right are Lavon Todt and Phil Pirofalo, Litton Industries (AWS vendor); Earl Hansel, Material Operations. Back row, left to right Walt Janicki, lead engineer-Material Handling; Larry Walker, AWS systems project manager, Operations Business system; Bob Stromberg, facilities engineer, Facilities Management; Bill Pickett, DSD-Western Center, Material Status Reporting Systems; and Roy Ellis, project engineer, Facilities Engineering. Al Hermann, Procurement, was not available for the photo.



Successful acceptance testing of AWS marked a major milestone for this group of Convair, Space Systems and DSD-Western Center employees who have been involved in the project from development to actual operational startup. Portions of the system are visible in the background — the operator work stations, the closed conveyor system, and the racks containing the pans.



And The Winner Is Plant Protection Officer Leonard Tucker draws one of the lucky cards in the drawing at the close of the 1985 U.S. Savings Bond Campaign. Plant Protection was one of the many departments rolling up an outstanding 100% participation.

Personal Telephone Training Offered

Our Telecommunications staff continues to offer the popular one-hour telephone training class at the Kearny Mesa and Lindbergh Field plants as a service to all Convair and Space Systems employees who use the telephone in the course of work.

Class sizes are kept small so that everyone has the opportunity to learn all about the features of the Dimension 2000 system. Course attendees will also participate in a hands-on training exercise to demonstrate their proficiency.

If you would like schedule or registration information, call Bobbie Alexander, 75553.

University of Redlands San Diego Class Offerings

In addition to the Business and Management degree programs already being offered, the University of Redlands — San Diego Center — will offer a Bachelor of Science in Information Systems degree program this fall. Redlands' representatives will conduct two in-plant information meetings on their programs. At Lindbergh Field, the meeting will be held in the Offload Conference room, building 1, column B-24, at 4:00 p.m. on August 20. At Kearny Mesa, the meeting will be held in trailer 2, southwest corner of building 5 at 4:00 p.m. on August 21.



Grand Prize Winner.... Dave Watson (front row center) a firefighter in Department 131-5, won the savings bond drawing grand prize — a trip for two anywhere American Airlines flies. Also at the prizewinner presentation were Julie Andrews (front), campaign coordinator — Convair Division, and Dr. Alan M. Lovelace, Space Systems general manager and honorary chairman of the inplant campaign. Back row: Richard Prytherch, Dept. 193, won a pair of Chargers seasons tickets; Rob Burrows, Dept. 037, won a portable TV; Phil Alvarado, Dept. 132, won a \$1,000 savings bond and Tom Georgi, coordinator — Space Systems.



Service Award Breakfast. Convair General Manager John McSweeney hosted a service award breakfast on July 26 to recognize employees with 35, 40, and 45 years of service to the company. Each honoree received a special gift and thanks for their contributions. From left to right are Rose Darling (35 years), Reggie Wells (35), Ed Squires (Staff), Art Riffel (35), Ed Minder (35), Bill Wise (Staff), Joy Dillow (40), Roger Rote (35), Bob Stanberry (45), Lynn Lightbown (35), Jimmie Denton (35), Don Sundstrom (35), Bob Lynch (35), Otis Potter (35), Bruno Bracka (Staff), James DeCosta (35), Ralph Adams (35), Bob Atkinson (45), John McSweeney (Staff), Frank Thompson (Staff), and Rudy Molina (Staff).

From the Health-Fitness Center

Exercise Your Financial Power. Free. August 14 and 21 at 5:00 p.m. in the Missile Park pavilion.

Rock A' Robics. Mondays and Thursdays at 4:30 p.m. in the CRA auditorium.

New 5:30 p.m. Workout. Mondays, Wednesdays, and Fridays in the CRA auditorium.

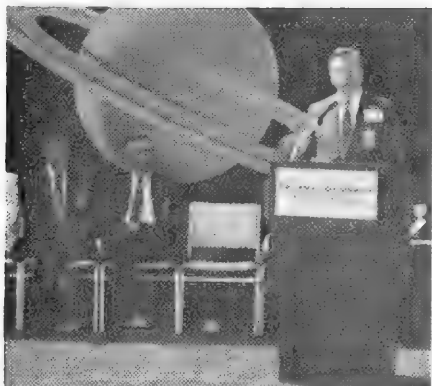
Employment

For the week ending August 2, employment was 12,130.

CONVAIR *Weekly Log* SPACE SYSTEMS

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Another Historic First



General Dynamics Corporation Vice Chairman Stanley C. Pace addresses the audience during last week's Shuttle Centaur rollout ceremony.

The rollout of the first Shuttle Centaur last Tuesday marked the beginning of a new era in aerospace. Stanley C. Pace, vice chairman of General Dynamics Corporation, expressed to an audience of more than 2,000 Convair and Space Systems employees, as well as representatives from NASA, the military, Congress, and the media that this achievement was an extremely important landmark for the newly formed Space Systems Division and for General Dynamics.

According to Dr. Alan M. Lovelace, corporate vice president and general manager-Space Systems Division, the completion of this Centaur is a result of the combined team effort of NASA, General Dynamics, and subcontractors, and it

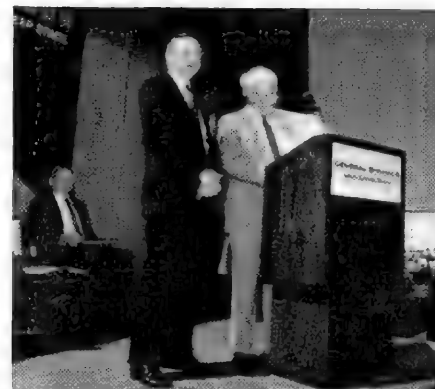


Left to right are Captain Frederick C. Hauck, USN, commander of the Ulysses mission ("Shuttle Centaur will provide us a new way to do business in space"), Colonel John Fabian, USAF ("We have been waiting a long time for this payload"), and Captain David Walker, USN, commander of the Galileo mission ("It looks great down here, but I will be even happier to see it leaving the payload section of Atlantis").

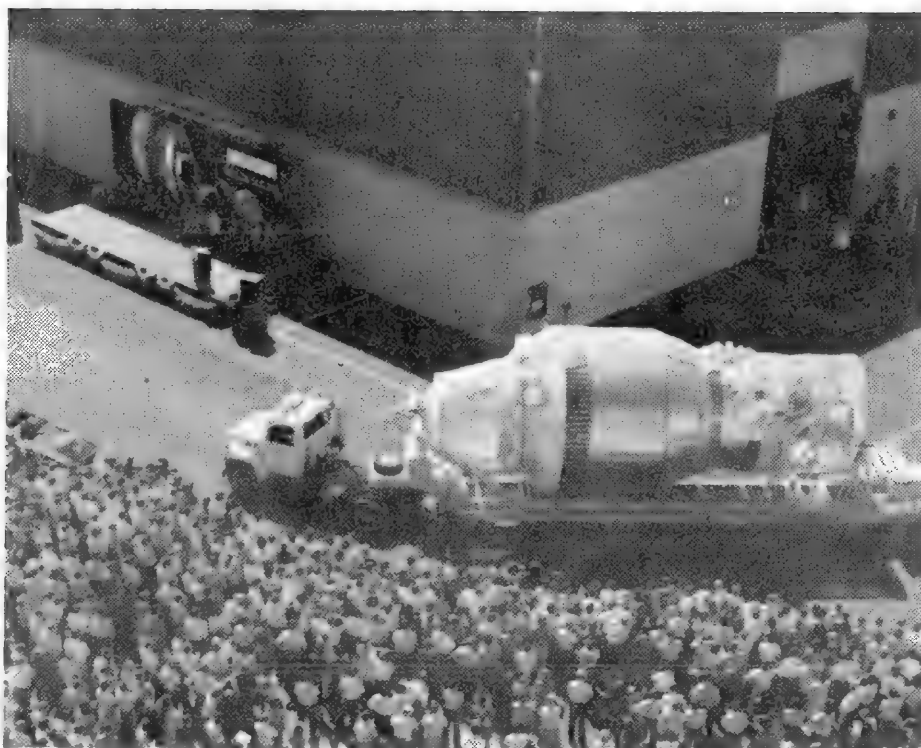
will provide an important contribution to the nation's space program and to our national defense. He also remarked that Shuttle Centaur will serve as a building block to provide valuable scientific data of international benefit.

The successful efforts of those individuals from Convair, Space Systems, and subcontractors who actually manufactured the hardware and provided logistic support were brought to attention by Ken S. Lake, division vice president-Operations.

The rollout ceremony symbolized the passing of the Shuttle Centaur through the threshold of its final objective. The next milestone will be its trip in September to Cape Canaveral, where it will undergo extensive testing in preparation for its May 1986 Galileo mission.



Jesse Moore, NASA deputy associate administrator for Space Flight (left), accepts Shuttle Centaur 1 from Dr. Alan Lovelace, corporate vice president and general manager-Space Systems Division.



"The fellow I am about to introduce . . . Well, how do I describe him? First of all, he's a pretty big fellow, and rather broad at the beam — 29 feet tall and about 15 feet at the waist. He's a powerful guy, and full of energy.

"Fairly young and maybe a little inexperienced, but he's got excellent credentials and comes from extremely good stock. A little bit thin-skinned, and he's always looking for a flight.

"A lot will be expected of him as he grows up, but I am sure he's more than equal to the challenge. He's tough, he's reliable, he's proud. And why not?

"It gives me great pleasure to introduce to you the star of our show today — Shuttle Centaur Number One."

— Space Systems Division Vice President, Program Development, William Rector III's introduction at the Centaur rollout ceremony last week.

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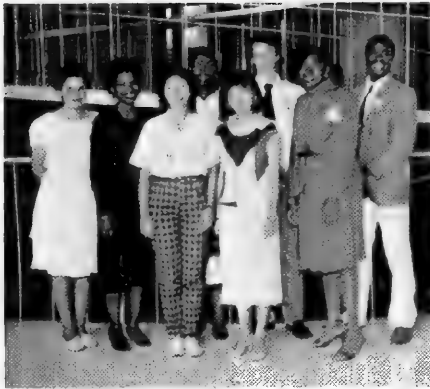
Centaur's First Family

Mrs. Krafft Ehrlicke, wife of the late Krafft Ehrlicke, and her two daughters were present at the rollout ceremonies as guests of General Dynamics. Krafft Ehrlicke, known as the Father of the Centaur, was instrumental during the 1950s for the concept and development of a liquid hydrogen-oxygen fuel system for an outer-space vehicle — the Centaur (man-made work horse).

During an interview, Mrs. Ehrlicke said that her husband "must have known his purpose from the cradle." She stated that he was a brilliant and dedicated individual who was determined to see his aerospace ideas and dreams become realities — in spite of frequent opposition. When asked how she felt about the completion of a Shuttle Centaur application based upon her husband's work, Mrs. Ehrlicke replied, "I wish he could be here now."

The General Dynamics aerospace industry is grateful for the committed efforts of people, such as Krafft Ehrlicke, who lay foundations upon which future decades of successful products and missions will be built.

Summer Intern Program



The 1985 summer interns: (left to right) Beatrice Mejia, Paula Goodwill, Yasmin De-La-Torre, Cynthia Fowler, Thao Tran, Edward Quinnan, Susie Holloway, and John Perry.

Eight young men and women have been lending Convair their enthusiasm and skills as they receive valuable work experience and the chance to see how their educational and vocational experience relate to the needs of industry. Each has spent six weeks in various departments throughout Convair.

Their mentors in the program are: Bob Barry (Dept. 461-0), Ken Biccum (138-1), Helen Hardy (132-0), Dick Neal (245-0), Pete Nickson (432-0), Marsha Nolan (656-0), Buzz Prettyman (480-1), Al Pope (133-1), and Hugh Souder (132-0). Corky King (133-1) is the program coordinator.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair and Space Systems divisions. If you have stories of interest, please call Cal Samuels, 39955, or send them to MZ 33-1334.

Managing Editor Cal Samuels
Production Editor John Doty
Design/Layout Peter Urban

Looking Ahead

Since its first voyage in 1981, the Shuttle has evolved into a space system capable of meeting the challenges of future space exploration and aerospace applications. In response to these challenges, Space Systems Division has successfully designed and manufactured the first of two Centaur vehicles adapted for use with the Space Transportation System (Shuttle).

Together, Shuttle and Centaur will launch the Galileo spacecraft in May 1986 to investigate the chemical composition of Jupiter's atmosphere and selected Jovian satellites. The second Shuttle/Centaur mission, Ulysses, is also scheduled to be launched in 1986, and it will explore the polar regions of the sun. In addition to these missions, Centaur, the nation's highest-energy upper stage launch vehicle, will deploy strategic spacecraft into geosynchronous (earth) orbits for the Department of Defense as well as for commercial users.

The Shuttle missions will carry the payloads into a nominal 130 nautical-mile orbit, at which point Centaur will be released from the orbiter's cargo bay by the Convair-made Centaur Integrated Support System (CISS) and allowed to coast for 45 minutes before engine start to initiate one of two mission performance options — earth orbital or interplanetary trajectory.

Centaur has performed reliably for many years with Atlas and Titan vehicles, and the new Shuttle Centaur configuration is yet another milestone that General Dynamics has achieved for further space exploration.

Security Tip: Electronic Memory Typewriters

The Industrial Security staff wants everyone to be aware of the rules governing the use of electronic memory typewriters for classified work.

Electronic typewriters that have the capability to retain memory may be used for typing classified information provided the following procedures are observed:

- A separate ribbon and correcting tape, identified as classified work, is used for this purpose. When not in use, these items must be locked in approved security containers.
- The memory element is not used.
- When the memory element is used, action must be taken to clear memory after each use. Memory clearance procedures may be different for each brand of typewriter. Check your instruction manual for correct procedures.
- After completion, verify that no classified information remains in the memory. Turn machine back on, and check memory to ensure that no classified information is retained.

Mark Your Calendar!

Santa Maria Barbecue
Saturday, September 14 at
Missile Park.

Details will be out soon.

Closed-Circuit TV Engineering Courses Offered

Convair and San Diego State University are putting together a special Electrical and Mechanical Engineering Master's degree program via closed-circuit television. The program will allow students to ask questions, provide feedback to the professors, and actively participate in the class, while never leaving the Kearny Mesa plant.

Classes will begin on September 3 and 4, and registration will be conducted on the first day of class. It is not necessary that you be admitted to SDSU to enroll in the TV class.

For course descriptions and prerequisites, contact Educational Services, 39558.

Junior Achievement Advisors Needed

Volunteers are needed to help provide high school students with practical business experience.

If you are interested in more information, call Kathy Miller, 49129.

Employment

For the week ending August 9, employment was 12,126

CONVAIR Weekly Log SPACE SYSTEMS

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Convair Division

BGM-109D Contract Won

The Navy awarded Convair a \$43.8 million contract on July 30 to complete the development, and begin the transition into production, of the BGM-109D submunitions version of the Tomahawk cruise missile.

The BGM-109D design includes a universal payload bay (in the forward body section), which houses the submunitions dispensing system. This system allows the submunitions to be dispensed against a series of targets, making the 109D the first cruise missile capable of assaulting multiple objectives. The universal bay concept also will be used for future payload applications, such as electronic counter-measuring devices and other types of submunitions.

Security Tip: Hand-Carrying Classified Information

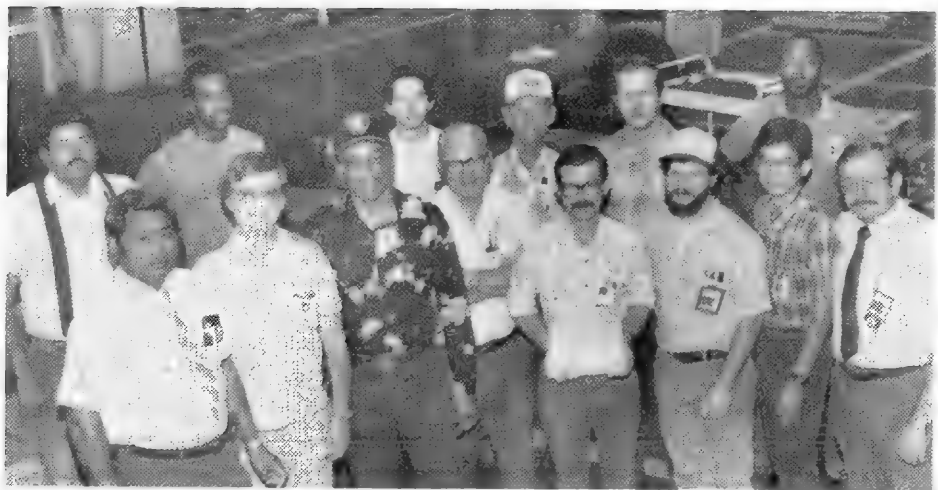
Hand-carrying classified information to government activities, industrial firms, sub- or co-contractors, or other outside sources, is a critical aspect of our security program. Classified information cannot be hand-carried outside of our facilities unless the following requirements are met:

- An emergency situation exists. For example, the mail service cannot deliver on time to meet a contractual delivery date, or a last minute meeting is called by the customer.
- A contractual relationship exists between General Dynamics and the intended recipient, or the contracting officer's authority, "need-to-know" certification, has been obtained in writing.
- Prior arrangements have been made for the safe storage of classified material upon arrival at the destination after normal working hours.
- Employees are briefed by the Industrial Security staff prior to travel, and all classified information is processed through the appropriate Classified Document Control Station.

If you have any questions regarding this matter, contact Bob Rodriguez, 39535.



George Vegter (second from left) and Ken Nauta, both in Space Systems Guidance & Control, were recently awarded Extraordinary Achievement Awards for their contributions to resolve control problems on the Centaur G vehicle in support of the Task K mission. Late last year, Convair engineers discovered a serious control problem with the Centaur G vehicle when attached to the flexible Task K spacecraft during powered Centaur flight. The problem was resolved within two months. Nauta and Vegter's timely solution involved a modification to the control system software only, and no hardware had to be changed. Also at the awards ceremony were Mike Felix, Systems Analysis director (left), and Leo Kaszas, Systems Performance manager.



"Target: Teamwork" winners for July.

Target: Teamwork

Ken Lake, Convair Division vice president - Operations, recently congratulated Machine Shop employees (Department 015-0) in cost centers 12, 21, and 26 for their "Target: Teamwork" achievements during July. "Target: Teamwork," which began June 29, is a pilot incentive program designed to recognize employees' contributions toward improving quality, productivity, and attendance.

Each month, all participating groups' actual performance is compared to their baseline data. Employees and supervisors in groups showing improvement above the base in all three areas will receive merchandise awards, and the group making the largest monthly improvement will earn awards of even greater value.

Savings and Stock Plan Values for June 1985

	1983	1984	1985
Salaried			
Government Bonds	\$ 3.5030	\$ 3.7263	\$ 4.3379
Diversified Portfolio	3.3103	2.9086	3.9810
Fixed Income	1.5146	1.7006	1.9127
Hourly			
Government Bonds	3.5012	3.7245	4.3378
Diversified Portfolio	3.3815	2.9552	4.0308
GD Stock	\$54.0000	\$52.5000	\$74.3800



Marva Winters, Plant Protection officer (left), receives an Excel Citation Award from Augie Daddi, Convair Division vice president - Industrial Relations. As the Bond Drive coordinator for Plant Protection, Winters's enthusiasm and dedicated efforts resulted in the first 100% participation for her department.

Free Eye Exams for Children

Preschool children three to seven years of age can have free eye tests on "Sight Saving Saturday" September 7, at four locations in the greater San Diego area.

From 10:00 a.m. to 2:00 p.m., the vision screening program will be conducted at Seaport Village, University Towne Centre, Grossmont Center, and Chula Vista Parkway Community Center.

The free program is sponsored by the San Diego Chapter of the National Society to Prevent Blindness, and it is made possible in part through financial support from our employee Con-Trib Club.

Closed-Circuit TV Course Offerings

The special Electrical and Mechanical Engineering courses offered via closed-circuit TV by Convair and San Diego State University will begin on September 3 and 4. Registration will be conducted on the first day of class, and it is not necessary that you be admitted to SDSU to enroll.

The following Fall-Semester courses are available to Convair and Space Systems employees:

- **Math 576 Artificial Intelligence**
Monday, Wednesday, Friday 2:00-2:50 p.m.

(Applies to M.S. in Electrical Engineering and Computer Science.)

- **EE 576 Microprocessor Systems Development**

Monday & Wednesday 12:30-1:45 p.m.

- **EE 676 Fault Tolerant Computing**

Monday & Wednesday 4:00-5:15 p.m.

- **EE 653 Coding Theory**

Tuesday-Thursday 4:00-5:15 p.m.

- **ME 661 Gas Dynamics**

Monday, Wednesday, Friday 9:00-9:50 a.m.

- **ME 530 Introduction to Control Systems**

Tuesday & Thursday 8:00-9:15 a.m.

- **EM 725 Theory of Plates**

Tuesday & Thursday 5:00-6:15 p.m.

Convair will pay the entire tuition costs, and all courses will be held in trailer 2, located at the southwest corner of Kearny Mesa building 5.

For course descriptions and prerequisites, contact Educational Services, 39558.

Notice to New Bond Purchasers

The first payroll deductions from this year's U.S. Savings Bond Campaign will be reflected in the September 13 paychecks. If a deduction card was improperly filled out, it was returned to the employee for corrections. In those cases, the first deduction will be delayed until the corrected card is processed through Payroll.

Santa Maria Barbecue

Once again, it's time for the Chuckwagon Gang from Vandenberg AFB to roll south to Missile Park for the annual Santa Maria Barbecue. The festive event, sponsored by Space Systems Division and hosted by Dr. Alan M. Lovelace, vice president and general manager, will begin at noon on Saturday, September 14.

Dinner will served from 3:00 to 5:00 p.m. (or until all are fed), and the NMA

meeting will be held from 6:00 to 7:00 p.m., with drawings and prizes. There will be games, rides, and entertainment until 8:00 p.m.

Dinner prices are \$6 for adults and \$3 for children under twelve years of age. Tickets may be purchased from NMA boosters, but don't delay — only 1,500 are available.

July Retirees

Thanks and best wishes for a happy retirement to these employees who retired in July:

Name (Dept.)	Years of Service
Wm. R. Anderson (251-6)	
Reprod. Equipment Operator . . .	26
Raymond I. Barnes (633-6)	
Metallographer	31
Luis Bustillos (015-0)	
Jig Borer-Machinist	10
Carl T. Chunn (835-0)	
Federal Item Ident. Analyst	31
Jay D. Cross (270-0)	
Logistic Administrator	17
Noreen N. Downs (191-1)	
Revenue Management Clerk . . .	42
Howard E. Greer (101-0)	
Program Development Specialist .	3
James F. Haskins (633-0)	
Engineering Chief	29
Harrell P. Hurt (191-0)	
Accounting Analyst	32
Philip V. Lathrop (679-0)	
Engineer	10
Phyllis E. Miller (224-2)	
Stock Room Records Clerk. . . .	29
Ora E. Morgan (282-1)	
T & O Group Leader.	30
Neil W. O'Rourke (689-0)	
Engineer	14
Mintauts Sanders (241-0)	
Engineering Specialist.	4
Louis M. Schliffe (031-0)	
Mock-up & Tool	30
Nathan A. Smith, Jr. (100-8)	
Engineering Specialist.	27
Wayne A. Smith (250-2)	
Facilities Engineer.	34
Clinton D. Sommer (985-1)	
Launch Service Mechanic	8
James H. Stokes (979-4)	
QA Supervisor	27
Urban J. Sweeney (654-0)	
Chief Librarian	19
Robert L. Swisher (554-8)	
Software Engineer.	30

Employment

For the week ending August 16, employment was 12,114.

CONVAIR Weekly Log SPACE SYSTEMS

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Launch Motivational Program Continues

Over the years, the Atlas/Centaur program has sponsored trips to Eastern Test Range to observe final launch preparations and actual launch of an Atlas/Centaur. The people selected are given a detailed tour of the launch facilities.

Individuals are recommended as candidates by their managers, with final selection determined by the random drawing of names. The program provides an opportunity for employees working on the program to observe the end results of the product they help produce.

Three employees will view the launch of AC-65 scheduled for September 26. Mike Matthews, missile mechanic (Department 761-0, A/C Final Assembly), Phil Asprion, senior procurement quality engineer (Dept. 320-0, Procurement Quality Assurance), and Dana Spaw, senior finance analyst (Dept. 194-3, Space Finance Management) were the lucky winners of the drawing on August 27. The remaining candidates will be able to view the launch from closed-circuit screens in Kearny Mesa's building 26.



Left to right are Darrell Parsons, A/C program manager, Dana Spaw, Mike Matthews, and Lesa Royle, executive secretary to the A/C program director.

Security Tip: Classified Working Papers

Employees generating classified information are reminded that notes, drafts, and working papers must be marked and protected from the time they are initiated. Department of Defense security criteria require that:

- Working papers be dated and annotated with the appropriate security classification markings (Confidential, Secret, or Top Secret) at the top and bottom of each page.

- Paragraphs and/or portions of the documents be preceded with the appropriate classification markings, for example, (U), (C), (S), or (TS), to ensure that the reader is aware of the protection level required. Documents are to bear these markings following the title and preceding all captions.

Use your contract Security Classification Guide to determine the correct level of classification. If the information is extracted from other documents, it should be marked with the classification markings indicated in the original document, and the new document must include a list of the documents used in the generation process.

For more information, contact your department/program security representative or Bob Rodriguez, 39535.

Supervisory Training Completed

Graduation ceremonies for the first phase of the Operations Supervisory training course were held August 9 in the Town & Country Hotel. The class comprised Operations supervisors from first line to managers, representing all functional areas within the department.

After a welcome by host Ken Lake, division vice president — Operations, Dr. Alan Lovelace, vice president and general manager, Space Systems, and John McSweeney, vice president and general manager, Convair, addressed the graduates. They cited the importance of supervisor education and training in meeting the future challenges posed by the aerospace industry.



Left to right are Al Catalano, chief — Cruise Missile Manufacturing Control & Scheduling, Joanne Kowalik, staff secretary — Operations, and Ken Lake, vice president — Operations at recent graduation ceremonies for the Operations Supervisory Training course.

Calling Card Holders

If you are an authorized user of a General Dynamics-issued AT&T calling card, you should receive a new Pacific Bell card soon. Upon receipt of your new card, please destroy the old, as it will no longer be effective for your long-distance needs. For more information, call Estelle Starnes, 74229.



Alan Bokow, group leader — Lindbergh Field Production Control, (Department 225-3), was recently presented a \$7,678 Employee Suggestion Award. Alan's suggestion was to machine the cruise missile Teflon canister liners in house, rather than using a subcontractor. From left to right are Dave Gonzales, supervisor — Operations; Alan Bokow; Don Kolesar, manager — Production Control; and Mike Rice, general supervisor — Operations.

Attention, Courier Users

If you use the services of Federal Express, Emery Worldwide, Airborne Express, DHL Worldwide, or any other couriers, please be sure to forward the sender's copy of the airbill to:

Accounts Payable
MZ 84-1915
Attention: June Fleenor

Santa Maria Barbecue

Tickets are going fast for this annual event, so see an NMA booster before it's too late. The fun begins at noon Saturday, September 14, in Missile Park.

Dinner will be served from 3:00 to 5:00 p.m. or until everyone is fed. The Blue River Band will be performing country and western dance music from 4:00 to 8:00 p.m.

Admission to the park is free, and dinner tickets cost \$6 for adults and \$3 for children under 12 years.

CRA has remodeled its parking facilities, and the parking entrance is now accessible only from Clairemont Mesa Blvd. Reservations for campsites will be accepted beginning September 9. Call 75425 for campsite information.



Manufacturing Technology (Department 470-0) has implemented cost reduction projects in the factory totaling \$18 million. Receiving awards at the August monthly presentation, from left to right, are Bob Ferenc, Gordy Lundquist, Joe Truncala, and Gib Gilbert. Award recipients not available for photo were Rex Teitgen, Jane Gregory, and Robin Arthur.

Shoemobile Schedule

Lindbergh Field:

- West side of bldg. 1, second Tuesday each month, 9:00 a.m. to 5:00 p.m.
- West side of bldg. 1, fourth Tuesday each month, 7:00 a.m. to 4:30 p.m.

Kearny Mesa:

- Northwest corner of bldg. 5, second Wednesday each month, 10:00 a.m. to 4:30 p.m.
- Northwest corner of bldg. 5, fourth Wednesday each month, 10:00 a.m. to 4:30 p.m.

Plant 19:

- Near gate 23, second Wednesday each month, 8:00 a.m. to 9:30 a.m.

Harbor Drive:

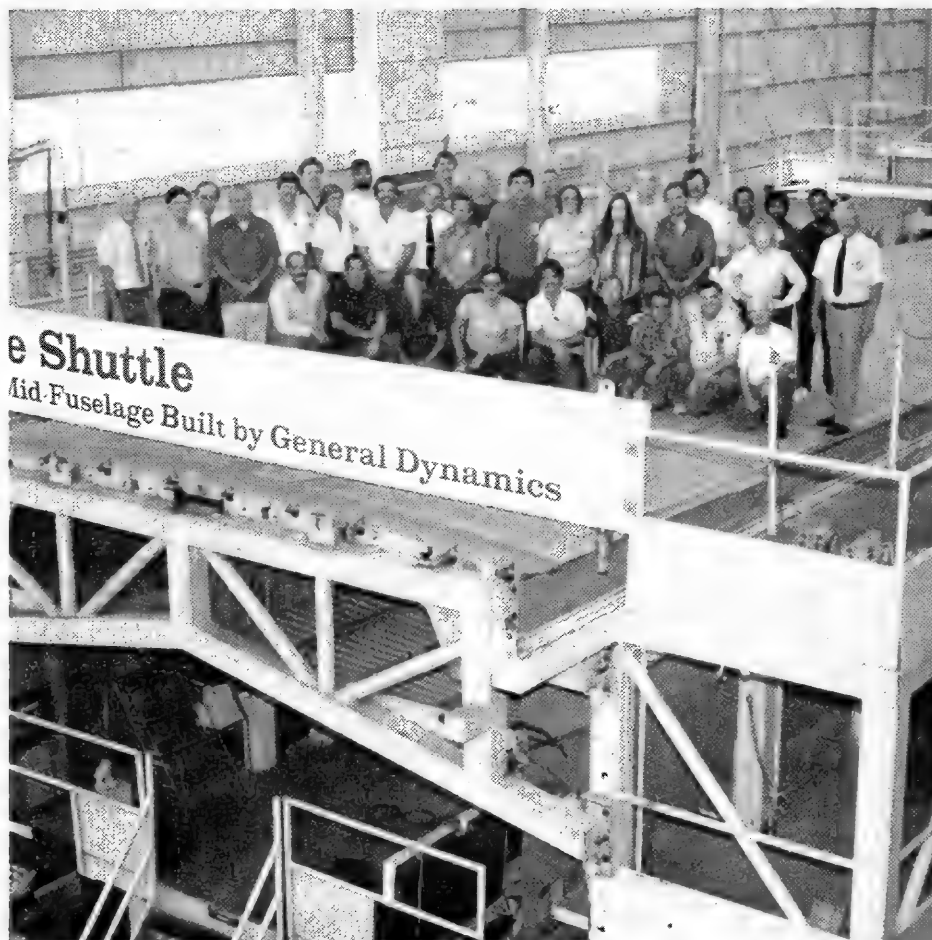
- South of bldg. 66, fourth Wednesday each month, 8:30 a.m. to 9:30 a.m.

Payroll deductions available

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair and Space Systems divisions. If you have stories of interest, please call Cal Samuels, 39955, or send them to MZ 33-1334.

Employment

For the week ending August 23, employment was 12,119.



Fabrication of the fifth orbiter mid-fuselage built for the space shuttle program by Convair and Space Systems divisions is well under way. This fuselage is designated as a spare and is scheduled to be completed in November. The nature of the design requires much personal craftsmanship, and the Operations department individuals shown above are to be congratulated for meeting quality and schedule requirements.



Another Major Equipment Move. A large area at the north end of Lindbergh Field's building 3 has been cleared to make room for a new composites area. The project involved a major relocation of some large equipment, including an autoclave oven (shown above). The oven — Convair's first totally computerized autoclave — was moved in one piece, but because of its size and weight, it turned out to be a hefty logistical accomplishment. In addition to equipment moves, the old mezzanine at the north end of the building was torn down and a new mezzanine will soon be constructed.

CONVAIR *Weekly Log* SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

Space Systems Division

Space Study Awarded

NASA Marshall Space Flight Center has announced the award of a \$6 million, two-year contract to Space Systems for the national Space Transportation Architecture Study (STAS).

The objectives of the study — a joint NASA and Air Force program conducted by four prime aerospace contractors — are to determine the nation's overall Space Transportation System needs beyond 1995 (including the flight and support systems needs), to substantially reduce total life-cycle costs, and to identify the new technology required for the next generation Space Transportation System.

Dr. Alan M. Lovelace, general manager — Space Systems Division, said, "It is extremely gratifying to be afforded this opportunity for General Dynamics to be integrally involved in the definition of our overall Space Transportation System as it evolves into the 21st Century. Our extensive space heritage at Space Systems Division will be focused on addressing the wide range of challenges that face our nation in assuring reliable, low-cost access to space."



The Space Transportation Architecture Study (STAS) team members front row (left to right): Bill Strobl, Lee Weikum, Ed Hujsak, and Charles Abbate. Back row: Greg Gilmore, Bob Downs, and John Gaines. Not available for photo were Rich Parker, and Bob Tatrow.

Another KC-10 Delivery

KC #43 was shipped to Douglas Aircraft Company on September 3, bringing the total delivery of DC- and KC-10s to 421. Thanks to a total team effort, it was shipped on schedule and was one of the highest-quality units delivered to date.

Convair Division

Tomahawk Team Congratulated

Mike Keel, Convair Division vice president and program director — Cruise Missiles, recently received a letter from Rear Admiral S.J. Hostettler — Joint Cruise Missiles Project, Washington, D.C., that included the following message from Vice Admiral Metcalf, deputy chief of Naval Operations:

I would like to extend my heartiest congratulations to you and all of JCMP's superb staff for their work in bringing the ship-launched TLAM/C weapon system through the most successful OPEVAL in my memory. This achievement marks the beginning of full participation in Strike Warfare by the Surface Navy and will allow our ships to provide critical support to our TACAIR forces in meeting the strike missions of the future. Seldom has a need been better met, a goal more clearly achieved. Well done.

Admiral Hostettler requested that this recognition be passed on to Convair employees and concluded his letter, "It would not have been possible without the hard work and dedication of every member of the Tomahawk Team."

**Join Your Co-Workers
& Lend An Arm
Give Blood During
Convair, Space Systems
& Western Center
Blood Drive
October 7-11, 1985
Details next week**

Caring Is Sharing

The Con-Trib campaign is into its final week. Departmental coordinators will be contacting each employee to offer thanks to full-share participants and to give less-than-full-share members and non-members the opportunity to show their concern for local communities by support-

ing agencies throughout San Diego County, as well as helping co-workers.

This year's Con-Trib goal is to raise \$1,200,000 for charitable organizations and the employees' Emergency Aid Fund. To achieve this goal, Con-Trib needs 6,000 new members and/or increased giving. The key to reaching our goal is teamwork — and teamwork is only possible if everyone contributes to the total effort.

The following list represents some of the agencies that your membership in the Con-Trib Club helped support during the past year:

*Service Center for the Blind
Cancer Research
San Diego Mental Health
Senior Adult Agencies
Meals on Wheels
Children's Workshop (Camp Able)
Children's Hospital
Boys & Girls Clubs
YMCA's & YWCA's Boy & Girl Scouts
San Diego Rescue Mission
St. Vincent de Paul
Tough on Drugs
Center for Womens Studies
Crime Victims Fund
Able Disabled Advocacy*
Posters throughout the plants will keep you informed on the campaign's progress.

The Weakest Link



Contributors to the success of "The Weakest Link" are (left to right) T.W. Landis — director of photography, John Gray, III — director, and Scott Crist — sound. Screenwriter Sam Long was not available for the photo.

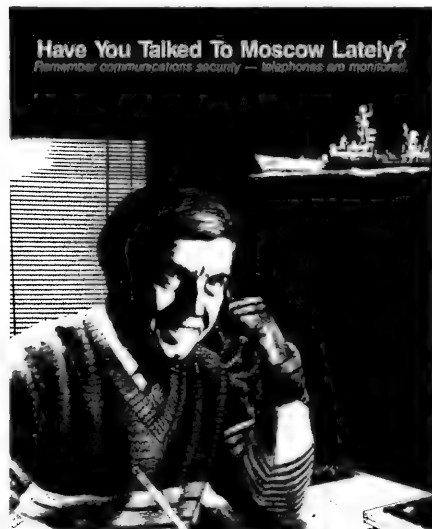
The American Society for Industrial Security has recognized Convair with two awards at the 1985 International Poster and Film Competition. The judging committee for the competition awarded our film, "The Weakest Link," first prize in

—OVER—

the Private Industry category. The film, based on the Convair Security handbook, was produced by Convair in connection with the Department of Defense Industrial Security Program.

In the Security Poster category, our poster, "Have You Talked to Moscow Lately?" took second place in the competition. The film and poster have significantly enhanced our security program.

Congratulations to Bob Rodriguez, Industrial Security, who wrote the Security Handbook and coordinated the film, and to Motion Pictures & Television, and Art & Editorial for their contributions.



Convair's award-winning poster created and produced by Jack Smothers and Suzanne Hertz — Art & Editorial.

Quality Circles — Putting Our Heads Together

Quality Circles are groups of seven to ten employees who meet regularly to confront work-related problems. Their objectives are to solve and prevent problems, reduce costs, improve quality, build teamwork, improve communications and morale, and generate good ideas for overall productivity. Participation in a Quality Circle is on a voluntary basis, and members are provided a means to influence decisions about the work they do.

The effectiveness of Quality Circles was recently demonstrated by the Misfits (Missile Factory Improvement Team). Comprising cruise missile industrial engineers, the Misfits successfully mastered the Quality Circle problem-solving process, resulting in significant benefits to Convair. Problems existed with fuel-cavity access doors that needed to be manually taped to prevent foreign object damage (FOD), and extensive interior cleaning that needed to be performed before missile close up.

In their search for alternate FOD prevention techniques, the circle brainstormed, investigated, experimented, tested, and followed up on the idea of using custom-fitted access opening covers made of compressible, closed-cell neoprene rubber. The result of the effort of the Misfits is a more efficient and cost-effective method of FOD prevention that translated into an initial program savings of \$950,000. There is also a patent pending and customer interest for additional uses on other programs.

If you are interested in forming a Quality Circle, new leadership training will be held in November. Contact Brian Stevens, 39947, for further information.



Misfits Make the Right Fit. Left to right are Brian Stevens, Quality Circles coordinator, Duane Foote, Ron Buccellato, Wayne Card, Phil Widmann, Cinda Lewis, Peter Soland, and Dave Cormany, product line director - Operations.

Safeguard Your Family Through Red Cross Classes

Do you have a family member with a heart condition? Are your youngsters accident-prone? Have you wondered how to make your house safer during an earthquake? The San Diego/Imperial Counties Chapter of the American Red Cross offers classes to help you prepare for situations such as these.

The courses, which have minimal registration charges, include such topics as cardiopulmonary resuscitation (CPR), CPR instructor methods, standard first aid, standard first aid instructor, advanced first aid instructor, and vital signs.

For class registration and schedule information, call 291-2620.

New CRAD Win

Space Systems Division was recently awarded a CRAD (Contracted Research & Development) contract by the Air Force Rocket Propulsion Laboratory to study low-cost expendable propulsion concepts. The study will include the examination of rocket engines, tanks, and propellant lines and is closely allied with the new Space Transportation Architecture Study.

Dial with Style

Are you the only person in your office who still can't figure out how to put a telephone call on hold, transfer to another party, or forward your calls to another extension?

Our Dimension 2000 telephone system has many easy-to-use features that are covered in detail in Telecommunications' one-hour training course. If you use a telephone on your job, there is no reason to be intimidated by this state-of-the-art communications system.

By taking the course, you will receive updated information as well as a special hands-on training demonstration to exhibit your proficiency.

Due to an increasing demand for the classes, two sessions will be held every Tuesday, Wednesday, and Thursday. For registration information, call Bobbie Alexander, 75553.

University of Redlands Course Offerings

The University of Redlands is offering Bachelor's and Master's degrees in business-related fields. You are invited to attend one of the following information meetings:

- **Kearny Mesa.** Monday, September 16, at 4:00 p.m. in building 5, mock-up conference room C.
- **Lindbergh Field.** Tuesday, September 17, at 4:00 p.m. in building 1, column B-24, offload conference room.

For further information, contact Susanna Bruno, 28293, for Lindbergh Field; or Steve Bascom, 38165, for Kearny Mesa.

Never Learned to Type?

With the widespread use of computers in the workplace, there is a need to sharpen typing skills. Educational Services offers a self-paced keyboard proficiency course for people who never learned to touch type or for those who want to progress beyond the hunt-and-peck system.

Classes are being held at Kearny Mesa on an individualized basis from 1:30 to 3:30 p.m. daily. For information, call Patricia or Barbara, 39558.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair and Space Systems divisions. If you have stories of interest, please call Cal Samuels, 39955, or send them to MZ 33-1334.

Employment

For the week ending September 6, employment was 12,089.

Published by the Convair & Space Systems Divisions of General Dynamics

Dr. Lovelace Addresses National Commission on Space

Dr. Alan Lovelace, general manager – Space Systems Division, recently addressed The National Commission on Space, Washington, D.C., on “A General Dynamics Perspective on the Future of the United States Space Program.”

Dr. Lovelace presented the goal of optimally utilizing the resources of the inner solar system to benefit all mankind. Central to this goal is the objective of opening the Moon and Mars to human exploration, utilization, and eventual settlement in order to harness the enormous wealth of our solar system.

The plan that Dr. Lovelace proposed is divided into four phases:

The suggested inner solar system infrastructure begins with a Space Station in Low Earth Orbit that is linked with Geosynchronous Earth Orbit and the Moon by an Orbital Transfer Vehicle (Phase I). During the 1990s, unmanned missions to the Moon (e.g., Lunar Geoscience Orbiter) will study lunar resources and determine the best sites for science, resource, and colonization bases.

Establishment of lunar bases and early utilization of lunar resources should occur during the first decade of the 21st Century (Phase II). Before 2010, the first manned missions to the moons of Mars (Phobos and Deimos) will establish small bases and study the moons' resource potential.

Phase III (2010-2020) is highlighted by significant utilization of lunar resources throughout the Earth-Moon system. Lunar industrialization will be assisted by volatile elements imported from Phobos and Deimos, and the first human bases on Mars will begin to be constructed.

After 2020 (Phase IV), many advanced activities will enhance the infrastructure. Advanced human settlements will begin to sprawl across the Martian surface. An Earth-Mars Orbit Station will make possible the routine transfer of large numbers of people in safety and comfort between Earth and Mars.”

This presentation was one of many inputs that the Commission will receive to assist the formation of a final recommendation to President Reagan in March 1986.

EXCEL Nomination Open for 1985 General Managers' Awards

Only nine days remain for supervisors to nominate candidates for the most prestigious award in the division — the General Manager's Employee of the Year Award. This year, an employee will be selected from Convair and Space Systems divisions. Nomination forms were distributed last week to all supervisors. If additional forms are needed, please call Evelyn Cain, 39943, or Gayle Everidge, 39130.

Nominations must be in no later than Friday, October 11.

Make Your Blood Drive Reservation Today

There is still time to donate blood during the Convair, Space Systems, and Data Systems Division - Western Center Blood Drive.

An active employee participation makes it possible to provide blood replacement services at no charge to employees and their eligible dependents, while providing a community need as well. Reservations for the drive will be taken for the following locations and times:

- **Kearny Mesa** — October 7 and 8, 8:00 a.m. to 1:00 p.m. Call 73820 for appointment.
- **Lindbergh Field** — October 9 and 10, 8:00 a.m. to 1:00 p.m. Call 28244 for appointment.
- **Plant 19** — October 11, 8:00 a.m. to 4:45 p.m. Call 28244 for appointment.
- **Sycamore Canyon** — October 8, 8:00 a.m. to 1:00 p.m. Call 77143 for appointment.

Each donor will receive a San Diego Blood Bank T-shirt.

B-24 Veterans Visit Convair

During their annual reunion, members of the World War II 9th Bomber Squadron (based in India) were given a tour of the Lindbergh Field facilities that manufactured the B-24 Liberator. On a key mission in February 1945, four of the squadron's B-24s successfully destroyed the main bridge over the River Kwai, as well as other bridges along the railroad route linking Burma with Thailand. One of the crew members remarked, “I think that your B-24, and ours, really showed its character.”

The guests met some of the employees who were involved in designing and manufacturing the trustworthy B-24 *Double Trouble*.



Members of the 9th Bomber Squadron.



New Journeyman Machinists. After four years of on-the-job training and related classroom instruction, Mike Rhamy (left), Al Leyvas (second from right), and Angel Flores (right) were presented their journeyman machinist certificates and pins by Roger Betts, Operations general supervisor - Machine Shop, marking the completion of their involvement in Convair's Apprenticeship Program. The new journeymen will work in Department 015 as jig borer machinists.

General Dynamics Scholarships for College-Bound Students

Each year, General Dynamics sponsors as many as four college scholarships for children of employees who have completed at least two years of continuous service by the end of the year before the scholarship awards.

The first step in applying for the scholarship is for candidates to take the Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test (PSAT/NMSQT) in their junior year of high school. This test is given each October at public and independent schools, and students should make arrangements now with their school counselors to take the test.

The scholarship competition takes about a year and a half, from the qualifying test, through the semifinal and final stages, to the awarding of scholarships. The maximum amount awarded is \$3,000 per year, and the minimum is \$1,000.

For a booklet explaining the entire program, call Educational Services, 39558.

National Quality Month

The nation will be turning its attention to quality in October as the American Society for Quality Control (ASQC) kicks off its second annual National Quality Month campaign. The campaign, entitled *Quality First*, is a five-year program aimed to promote quality in American products and services. President Reagan will make an official proclamation for National Quality Month in honor of this campaign.

Rudy Molina, Convair Division vice president - Quality Assurance, will be the

guest speaker at the San Diego section ASQC meeting at the Bahia Hotel on October 15, where he will address the subject of "Improving and Maintaining Customer Relations Through Mutual Understanding and Respect." For reservation information, call Jerry Wilken, 75216.

From the Mail Room

Deliveries to Sycamore Canyon are made daily from Kearny Mesa at 8:30 a.m. Please ensure that your addresses are marked "SYC," and include the proper building number and/or department.

The General Dynamics Dayton Office has a new address:

**5100 Springfield Pike
Suite 400
Dayton, Ohio 45431-1231
(513) 256-1330**



Proud of Their Quality. Don Moore, Space Systems Division's director of Quality Assurance, presented Eastern Test Range QA personnel with EXCEL awards for their dedicated efforts on Shuttle Centaur final checkout and sell off in San Diego. Present at the award ceremony were, left to right, Don Moore, director - QA; Gene Gilmore, chief - QA; Warren Richards, inspector - Launch Services; Larry Green, inspector - Launch Services; and Tom Phillipp, manager - Mission Assurance. Also receiving an EXCEL, but unavailable for photo was Charlie Tuck, inspector - Launch Services.



SC-1 on its Way. Shuttle Centaur 1 being loaded onto the Super Guppy at Lindbergh Field for transport toward its launch destination at Cape Canaveral.

Increased Awards for "Critical Skill" Hires

The Great Talent Search will award Diamond merchandise certificates for engineering hires in critical skill areas listed on the new Limited Edition Great Talent Search posters. Look for the posters throughout the plant, pick up a flyer at the GTS office, or call 39530 for details.

Referral cards must be received by December 23 to qualify for the increased awards. The Diamond certificate is redeemable for such items as a sailboat, pool table, piano, personal computer, stereo color TV, component stereo system, or grandfather clock - just to name a few.

Convair Ingenuity

Fred Morghen, a senior manufacturing engineer in Department 422-0, has received a U.S. patent through Convair for designing a removable locating pin assembly, which can be used during machining set ups to index and locate various types and sizes of production parts. Such pins have traditionally been "fixed" pins, which limited the use of metal plates, but Fred's cost-effective invention will permit relocation of pins for use on other machining needs.

Fred was also responsible for designing and installing a computerized optical measurement system for measuring cruise missile wing angle positions (incidence, twist, and dihedral). The system measures and records - through line-of-sight optics - certain body sections and wing points, which are analyzed by computer to determine acceptability of installed wing sets. The new measurement system replaces an eight-hour manual task with a three-hour automated task of much greater accuracy.



Left to right are Renato Nicolas, missile mechanic; Fred Morghen, engineer; and Sammy Solorzano, group leader - Cruise Missile Final Assembly shown with the Convair Digital Theodolite Wing Measurement System.

Employment

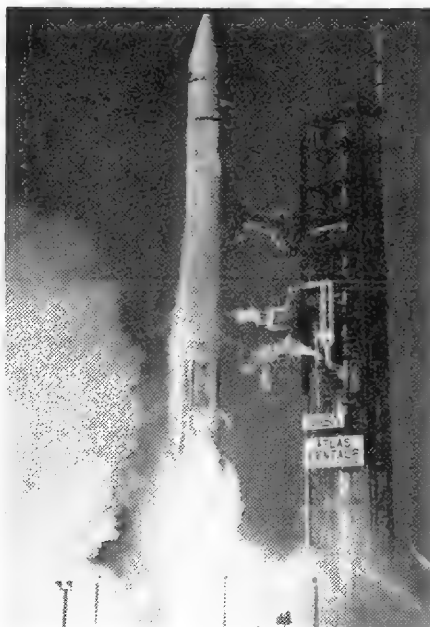
For the week ending September 20, employment was 12,086.

AC-65 Successfully Launched

Atlas/Centaur 65 successfully launched the Intelsat V-A (F-12) communications spacecraft into a 19,413-mile geosynchronous transfer orbit on September 28 at 7:36 p.m., EDT. Launched at the beginning of the first window from Complex 36B at Cape Canaveral, AC-65 was the 24th Intelsat spacecraft launch mission spanning 15 years for Atlas/Centaur.

Intelsat V-A (F-12) is the largest and highest capacity commercial communications spacecraft yet built. It can relay up to 15,000 two-way telephone calls and two color TV channels simultaneously. Intelsat V-A is the first spacecraft to reuse frequency bands by spatial separation and polarization. Built by Ford Aerospace & Communications Corporation for Intelsat, the 4,000-pound unit is 21 feet high and 52 feet wide with its solar wings deployed. AC-65 is the third Intelsat V-A successfully launched by Atlas/Centaur this year.

Regarding the launch of AC-65, Dennis Dunbar, Atlas/Centaur program director, said, "Although this was the last commercial launch of Atlas/Centaur sponsored by NASA, Space Systems Division looks forward to continued direct sales to commercial customers."



The recent launch of AC-65 from Complex 36B at Cape Canaveral.

Space Systems Employees Observe Launch

As participants in the motivational program sponsored by Space Systems Division, Dana Spaw, Mike Matthews, and Phil Asprion were treated to a tour of our Cape Canaveral facilities and viewed the launch of AC-65. When asked about the trip, Phil Asprion, senior quality engineer, said, "I have seen many photos and films of Atlas/Centaur launches, but nothing compares to actually seeing one lift off the pad."

Dana Spaw, senior finance analyst, said she was impressed with the tour up the launch tower, and Mike Matthews, missile mechanic, shared his talents by singing in a bluegrass band for the post-launch celebration.

Quality Work



Measurement Control's Calibration Procedures and Measurement Engineering groups.

October is National Quality Month, and many departments deserve recognition for their fine quality performance. One of these departments is Measurement Control (363-0), commonly referred to as the "Cal Lab."

A key function within the Cal Lab is writing and maintaining procedures and software for more than 3,000 different manufacturer and model types of measuring and test equipment used by our divisions. This task is currently being accomplished by contract engineering writers and word processors, in addition to the Measurement Engineering group.

Since we have 46,000 pieces of measuring and test equipment requiring calibration, these writers, engineers, and word processors have an important task to ensure that proper procedures and software are available for our calibration techni-

cians to use in their calibrations and quality-oriented responsibilities.

In addition to their current effort to improve productivity and place the procedures on an automated system, the group also creates or revises an average of 40 new procedures each month to meet the needs of incoming equipment and tooling.

Blood Drive Begins Today

There is still time to donate blood during the Convair, Space Systems, and Data Systems Division - Western Center Blood Drive.

An active employee participation makes it possible to provide blood replacement services at no charge to employees and their eligible dependents, while providing a community need as well. Reservations for the drive will be taken for the following locations and times:

- **Kearny Mesa** — Monday and Tuesday, 8:00 a.m. to 1:00 p.m. Call 73820 for appointment.
- **Lindbergh Field** — Wednesday and Thursday, 8:00 a.m. to 1:00 p.m. Call 28244 for appointment.
- **Plant 19** — Friday, 8:00 a.m. to 4:45 p.m. Call 28244 for appointment.
- **Sycamore Canyon** — Tuesday, 8:00 a.m. to 1:00 p.m. Call 77143 for appointment.

Each donor will receive a San Diego Blood Bank T-shirt.

Reminder

This is the final week to submit nominations for the General Manager's Employee of the Year Award. For information, call Evelyn Cain, 39943, or Gayle Everidge, 39130.

Convair Deliveries

During September, 25 production and four maintenance Tomahawk Cruise Missiles were delivered to the government, marking the fourth month in a row that we have met or exceeded contract delivery requirements.

Three TELs and two LCCs were also delivered, and for the first time in the program's history, two TELs and one LCC were sold in a single day.

Congratulations to the Convair team.

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Convair and Space Systems Participate in Corporate Display at AFA

General Dynamics was among the many aerospace companies participating in the Air Force Association's annual meeting and display in Washington, D.C. during the week of September 16. The corporate display featured major Air Force programs from Space Systems, Convair, Fort Worth, and Electronics divisions. Among these were a full-scale instrumented two-seat cockpit of the Fort Worth-built F-16, a model of the Shuttle Centaur, and an actual Tomahawk Cruise Missile that had flown a successful test flight.



A portion of the General Dynamics display.

Savings and Stock Plan Values for July 1985

	1983	1984	1985
Salaried			
Government Bonds	\$ 3.4788	\$ 3.7715	\$ 4.3403
Diversified Portfolio	3.1727	2.9064	3.9759
Fixed Income	1.5295	1.7175	1.9324
Hourly			
Government Bonds	3.4768	3.7698	4.3395
Diversified Portfolio	3.2385	2.9520	4.0212
	—	—	1.9261
GD Stock	\$53.6250	\$53.0000	\$76.0000

Security Tip

The Defense Investigative Service (DIS) audit begins October 21, and every employee who handles classified data should be well acquainted with procedures included in the Security Handbook.

The DIS has instituted what is referred to as "enhanced inspection procedures," meaning they intend to spend less time reviewing records and will direct a larger part of their effort toward interviewing cleared employees.

The Security Department wants to thank departmental security representatives and other employees involved for their efforts in the recent downgrading of clearances.

Fire Prevention Week

Fire Prevention Week is an annual event designated to remind Americans of the importance of fire safety. This year, National Fire Prevention Week is October 6 through 12. The Convair Fire Department encourages all employees to take this week to protect your home and work place from fire.

At Home:

- Install smoke detectors.
- Have at least one ABC-rated fire extinguisher (will put out all types of fires).
- Formulate a fire escape plan.

At Work:

- Maintain good housekeeping at all times.

- Use only approved safety containers when handling flammable or combustible liquids.
- Know the location and type of fire extinguishers in your work area. Be sure you know how to use them.

During the National Fire Safety Week, fire safety equipment, smoke detectors, fire extinguishers, life ladders, and combustible liquid safety containers will be on sale at the Lindbergh Field and Kearny Mesa fire stations at a discounted price to employees.



Fresh Off the Vine. Somebody randomly tossed a hand-full of watermelon seeds in a break area outside of Kearny Mesa building 4. The small patch recently produced its first melon. From left to right are garden variety Parts Engineering (Department 613-4) employees John Meister, Julie Hissong, Dawn Fox, and Neil McGuinness reaping the fruits of their labor.

Tape Service Available

A new audio cassette copying service is now operating at Lindbergh Field's building 4, column V-30, in the Material Test Lab. This service is provided through the courtesy of the Management Association and is available to all employees to copy NMA and other training-related tapes.

Blank tapes are on sale at this location, as well as tutorial tapes for learning Spanish, French, or German. For further information, call Connie Montoya, 28128.

The same service will continue to be provided at Kearny Mesa in the Still Photo Lab.

Obsolete Form

The Purchase Authorization (PA) form 5300 (Rev. 1-78), has been revised, and the current form is 5300 (Rev. 4-85). To avoid any delay of acquisition, all users are requested to discard or return bulk-packaged obsolete forms on a credit requisition to: Commercial Stores (282-0), Lindbergh Field, building 4, column D61, MZ 75-2820.

Employment

For the week ending September 27, employment was 12,061.

CONVAIR *Weekly Log* SPACE SYSTEMS

Published by the Convair & Space Systems Divisions of General Dynamics

Atlas Continues Successful Launch Record at WTR

Atlas 55E successfully launched the Air Force Global Positioning System (GPS) NAVSTAR-11 spacecraft into a 10,900 statute-mile orbit on October 8 at 7:53 p.m. PDT, from SLC-3W at Vandenberg Air Force Base. This was the last of 11 GPS/NAVSTAR spacecraft scheduled to be launched on an Atlas vehicle.

The spacecraft was manufactured by Rockwell International under contract to the Air Force. It provides a space-based, long-life radio navigational system and an integrated nuclear detection system platform. The navigational aid system has military and commercial air, land, and sea applications, and it is used for three-dimensional navigational positioning.

The launch vehicle was originally manufactured by Convair as an operational weapons system and delivered to the Air Force in June 1961. After serving in operational status and storage through 1982, Atlas 55E was modified, refurbished, and delivered to the Air Force Space Division in January 1985 as a space launch vehicle assigned to launch the Air Force NAVSTAR-11 mission.

Tunnel Vision



Some of the STA members on their visit to the Lindbergh Field wind tunnel.

The term generally carries a negative connotation, but in the case of Aerotest Engineering, Department 666-0, "tunnel vision" is essential to the aerodynamic development and testing of our products.

As part of the engineering test labs, the wind tunnel at Lindbergh Field is used to investigate aerodynamic forces and pressures on such products as aircraft and cruise missiles. A 1/12-scale model tunnel

is being used to develop improvements to the full-size tunnel.

Stan Griffin, manager - Test Labs, and Al McClain, group engineer - Aerotest, recently co-hosted the 64th semiannual convention of the Supersonic Tunnel Association (STA), comprising members from the United States, Canada, Great Britain, Germany, Japan, Australia, and other countries. The purpose of the convention was to allow members to present technical papers and exchange ideas on instrumentation, wind tunnel improvement methods, installations, and the overall workings of tunnels.

Engineering specialist Ed Brady coordinated a tour of the *USS Constellation* for STA members, and he also arranged a visit to our own wind tunnel facilities.

Notice

Anyone who saw a motorcycle accident that occurred Monday, November 29, 1982, at 6:20 a.m. near the entrance of Lot 11 at the Lindbergh Field plant, please notify the editor of the *Weekly Log*, 39955.

Security Reminder

During the security inspection scheduled to begin October 21, the Defense Investigative Service representatives will place special emphasis on security education.

Employees who hold security clearances will be selected at random to respond to questions dealing with every aspect of our security program.

Key areas of interest will include questions about DoD reporting requirements. For example, "As a cleared employee, what information are you required to report to security?" Answers:

- Intended travel on business or pleasure to or through a designated country
- Loss or suspected compromise of classified information
- If you become a representative of foreign interest (involved with, employed by, or acting as a representative of a foreign government, firm, or citizen)
- Adverse information — any information regarding an employee's inability to safeguard classified information, e.g., suspected alcoholism, drug

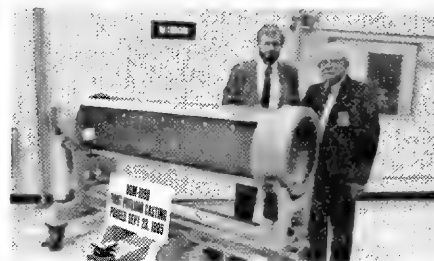
abuse, debts, unexplained wealth, disregard for the security of classified information

- Any affiliation with members of designated countries

There are more reporting requirements. Review your security handbook and be prepared to respond to any question. If you are not sure of your answer, offer to look it up on the security handbook.

If you have any questions regarding the inspection, contact your departmental security representative or call Bob Rodriguez, at 39535.

First Payload Section Casting for Tomahawk



Present at the roll-in were Ken List, left, and Bob Lynch.

Last Tuesday marked another first for the Tomahawk Cruise Missile program. The first cast-body section of a Tomahawk Cruise Missile was delivered by Teledyne Cast Products to the BGM-109D final assembly area of Kearny Mesa's building 5.

Bob Lynch, BGM-109D program manager, said the use of a casting will significantly reduce the cost compared with the concept of using welded and machined forgings.

Ken List, project manager for Teledyne Cast Products, said that 800 pounds of molten 356 aluminum alloy and seven and one-half metric tons of sand were used to produce the 350 net-pounds casting.

Radar Cross-Section Engineers and Test Data Analysts Needed

The Signature Technology department has a critical need for Radar Cross-Section engineers and test data analysts. Experience is not necessary but is preferred. The company will consider training interested indi-

viduals who exhibit potential based on past work experiences and educational background.

If you are interested, or know of someone who may be, please apply through the PEP system.

Fire Safety Equipment Still Available



John Natisis, firefighter EMT, explains the use of fire extinguishers to Diana Campion, administrative assistant - Plant Protection.

The Fire Departments at the Lindbergh Field and Kearny Mesa plants have extended the sale of fire safety equipment at discounted prices until Friday. Extinguishers, life ladders, combustible liquid safety containers, smoke detectors, and self-illuminating safety lights are on sale at both locations. Stop into one of the stations to see the displays, and pick up some free fire safety literature.

New Tool Store Hours

The Employee Tool Stores at Kearny Mesa and Lindbergh Field are now operating new hours: 7:00 a.m. to 6:00 p.m., Tuesday through Friday.



Thirty-five Years Plus. From left to right are the employees who were honored at a recent Service Award Breakfast for service of 35 years and more: John McSweeney (general manager - Convair), Aaron Roberts (35 years), Ed Fedderson (35), Bob Katan (35), Ladd Mastny (35), Reggie Sanchez (staff), Obie Kennann (35), Ray Beulligmann (staff), Carl Lambie (35), Winn Bleeker (35), Bill Hoover (35), Bob Harvey (35), Bob Herrmann (35), Bob Lewton (45), Walt Johnston (45), Bud Swindall (35), Bob Bishop (35), Forrest Sterling (35), Ivan Endicott (45), Val Valencia (45), John Waszczak (staff), Bill Wise (35), Royce Riggan (35), and Ken Lake (staff).



Goalgetters Get Goals. The Goalgetters Quality Circle from Department 224-3, Engineering Material Support, received an Employee Suggestion award for eliminating a step in the debit requisition approval cycle. By pre-approving debit requisitions before they get to the engineering stockroom, the circle saved Material Control \$78,000. Left to right are Donna Shuffler, Jean Howe, Pat Castro, Sonia Nava, Nancy Norris, Ceci Roth, Jackie Williams, Simone Woodin, and Quality Circle facilitator Rebecca Ramos.

Focus on Test Labs

The NMA Convair Chapter Technology Familiarization Program will put the spotlight on vibration and acoustics testing. The program is on Wednesday, October 16, beginning at 4:45 p.m. in the building 2 presentation room at Kearny Mesa. Arlan Barber and Oran Moore will be the speakers.

Each Technology Familiarization Program presentation examines the capabilities, principles, equipment, and tests applied to our high-tech products. Sessions are aimed at the "nonspecialist" to convey sophisticated technology in plain English.

The program is free and open to all employees. To register, call Frances, 38576.

The Dream is Alive

As part of a Space Systems Division motivational program to promote manned-flight awareness, more than 1,500 Space Systems and Convair divisions' employees who were supporting the space programs, and their family members were given the opportunity on October 3 and 4 to view a special film at the Reuben H. Fleet Space Theater. *The Dream is Alive* is the spectacular new Omnimax film shot by space shuttle astronauts that puts viewers aboard the Challenger on three different flights.

Speechcraft Opportunities

Improve your speaking skills, make new friends, and have some fun. Dynamic Toastmasters No. 457 is sponsoring this eight-week course, which begins Thursday, October 17, from 5:00-7:00 p.m. at the CRA. The cost is \$10 for course materials, partly applicable to membership. For more information, contact Kris Leisner, 77158, Don Bain, 72253, or Ed Collier, 279-6730.



Eardis Green, mockup mechanic - Department 031-0 (center), receives an EXCEL award from "J" Standard, supervisor - Space Components Assembly (left), and Chuck Lacy, superintendent - Space and Energy programs, for his extraordinary efforts on Shuttle Centaur forward and aft yokes. Mr. Green personally trained Department 761-0 and 762-0 employees to take over the workload on the yokes, and helped to develop and proof the required tooling. His resourcefulness and dedication to the Shuttle Centaur Program helped to ensure meeting early milestone dates.

From the CRA Health-Fitness Center

Bodyfit. The new program starts October 14. Classes are held on Mondays, Wednesdays, and Fridays from 5:30 to 6:30 p.m. in the auditorium.

Workout. New session starts October 16. Classes are held on Mondays, Wednesdays, and Fridays from 4:30 to 5:30 p.m. in the auditorium.

Employment

For the week ending October 4, 1985, employment was 12,067.

CONVAIR *Weekly Log* SPACE SYSTEMS

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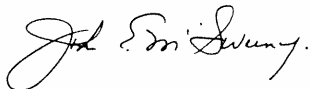
Con-Trib Results

We have concluded this year's employee Con-Trib Club campaign by meeting our projected goal. A pledge of \$926,000 has been made by the Con-Trib Club to United Way/CHAD of San Diego County, marking the largest single pledge by a local company.

Last week at the United Way/CHAD Pacesetter Firms Report, it was announced that the combined Convair, Space Systems, and Data Systems divisions pledge, when coupled with the corporation's contributions, will exceed \$1 million. Out of the \$4 million raised by the 51 Pacesetter firms, our pledge was one fourth of that total.

During the next year, nearly on-third of our employees and their families will use the services of agencies supported by your contributions. It is reassuring to know that our people care about fellow workers and our communities.

We commend you for your involvement and extend our gratitude for your generosity.



John E. McSweeney
Vice President and General Manager –
Convair Division



Dr. Alan M. Lovelace
Vice President and General Manager –
Space Systems Division

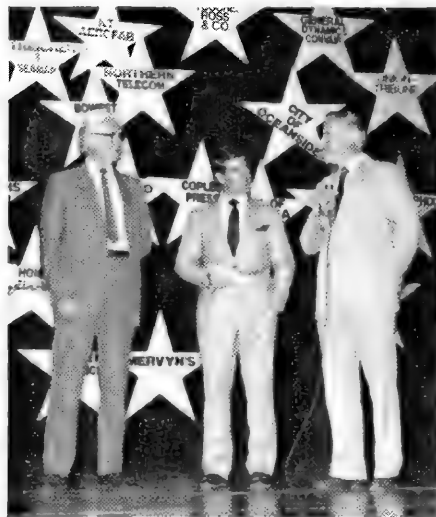


Paul M. Cofoni
Data Systems Division Vice President
and Western Center Director

New Age Thinking

Most of us use less than 8% of our potential. What about the other 92%? That's what New Age Thinking is all about. Learn how to use your true potential and develop your personal and professional ability by attending the 30-hour seminar sponsored by the National Management Association.

The course runs from October 24 to December 23, between 4:30 and 7:30 p.m. each Thursday at Kearny Mesa. The fee is \$50 for NMA members, and \$60 for nonmembers. Call Bell Gavino, 49832, for reservations.



John McSweeney (right) with Steve Garvey of the San Diego Padres and Harry Todd, chief executive officer of Rohr Industries, at last week's United Way/CHAD mid-campaign report at the Old Globe Theatre.

New Facilities at Sycamore Canyon

Cruise Missile Support personnel recently moved into a new office trailer adjacent to building 105 at Sycamore Canyon. The new office area more than doubles the office space supporting cruise missile assembly operations at the site.

The combined complex now features an area for DCASPRO, the QA Data Center, and ILS and Operations offices — including computer interface with the assembly building (B-107), a conference room, and rest rooms. A newly installed public address system linking the office area with the assembly area saves time locating people at the facility.

Future projects at Sycamore Canyon include a lunch room at B-105, a Receiving Inspection facility, and significant expansion of the assembly capability in B-107.

Ahead of Schedule

The August backlog of 36 TEL side loading doors presented a schedule challenge to the people of Department 019-0, metalbond-prefit and layup areas. As of the first week in October, the backlog was eliminated, and side loading door production is now ahead of schedule.

Mike Sawtell, Operations project administrator for TEL/LCC, was responsible for coordinating the recovery by calling on vendor support and devising an in-house plan. Mike Stubbs and Benny Wesson, supervisors – Metalbond, worked closely with Mike, and through their concerted efforts, they were able to achieve the goal.

Terry Leek, manager – Composites & Processing, congratulated the 019-0 workers for their conscientious work and dedicated efforts in producing six to seven doors a week.



The TEL side loading door team.



Safe Graduates. The following employees were recently awarded graduation certificates for completion of the Safety Development Course. Seated (left to right): Carlos Diz, Rebecca Wilson, and James Box. Standing: John Robutka, Gerardo Torregrosa, Randy McPheeters (Chief of Safety), Charles Engebretson, and Charles Gegan.

Security Inspection

The Defense Investigative Service (DIS) has instituted an enhanced Security Inspection Procedure. Under this new process, DIS representatives will be directing a larger portion of their inspection efforts to interviewing cleared employees. In the past, the majority of their time was used auditing records and documents.

During this inspection, DIS representatives will be looking more closely to our security education program. Cleared employees will be expected to know every aspect of our security program, from determining need-to-know before releasing classified information to other employees and visitors, to the handling, marking, and the correct procedures to safeguard classified information.

Be prepared, DIS representatives will be quizzing employees on security procedures. Take a few minutes of your time to review your security handbook. If you hold a security clearance, you will be expected to know the rules, regardless of the fact that you may not be involved in a current classified task.

Remember, access to classified information includes the ability to work on classified hardware such as the cruise missile. Some people tend to think classified information is limited to the written word; con-

sequently, when asked when was the last time they had access to classified information, employees often give the wrong answer.

Here are some other things DIS representatives will be looking for:

- Classified containers open or unattended
- Expired combinations on S&G locks
- Secret documents in confidential containers
- Combinations written down
- Secret working papers not in accountability/improperly marked
- Secret documents without overall page markings
- Lost secret documents
- Reproduction restriction notations not posted on reproduction machines
- Unsatisfactory employee responses to DIS questions
- Classified documents held out of proper storage overnight, i.e., hotel rooms
- Classified processing on computers or word processing (ADP) systems without prior DIS approval
- Deficiencies in classified processing procedures on approved ADP systems

Be Prepared!

Report to Industrial Security...

Report all suspicious activities connected with classified material and work areas.

For example, people who ask too many questions about your job... People who are not authorized in your work area, but try to enter... People removing classified material from the area, or reproducing it without approval.

Protection

When working with classified material, it must be under your direct constant control and protection.

You must be aware of who is in your work area and ensure that no unauthorized person is given access to the material. If someone comes near your work, turn it over or lock it up in your cabinet.



Employee Badges

As a cleared employee, you are required to wear the company badge in plain sight, on the upper-left part of your outer garment when on company premises. Badges must be worn so that your picture is visible. The badge also indicates an employee's level of clearance, which is necessary at our facility because we work on classified projects. To ensure the integrity of the Industrial Security program, and compliance with the Department of Defense security regulations, all employees must wear their badges in plain view.

Visitors must also be badged and escorted when an Escort-Required badge is issued:

- Challenge anyone on the premises not wearing a badge
- Escort anyone not wearing a badge to the nearest supervisor, Plant Protection officer, or to Industrial Security.

Storage of Company Data

Employees should note that General Dynamics private information and proprietary data are to be stored in locked rooms, desks, files, safes, or under special controls prescribed by Industrial Security. Under no circumstances should GDPI or GDPD be left unattended or in open containers.

The loss of private or proprietary information can be very costly. It can result in the loss of important contracts and earnings — and consequently, jobs. It is everyone's responsibility to safeguard company data.

Employee Security Clearances

Many of the requests for new employee security clearances reaching the Industrial Security staff fail to include adequate justification for processing security clearance requests. This is particularly true of requisitions for new hires.

Supervisors, remember that when you submit an AVO for personnel requisitions for new security clearances you must:

- Specify that the employee will be required to actually access classified information under a specified classified contract or program
- Certify that other cleared employees are engaged in classified projects and cannot be used for other classified assignment

Remember that we have just downgraded a significant number of employee security clearances under the direction of the Defense Investigative Service. We have limited the number of employee security clearances we are allowed to have within each division. Whenever possible, in-house cleared personnel should be used for classified tasks.

If a security clearance is required as a replacement for a terminating cleared employee, indicate this on your request. The Industrial Security staff must ensure that we do not exceed our DIS-imposed limit of security clearances.

DoD Reporting Requirements

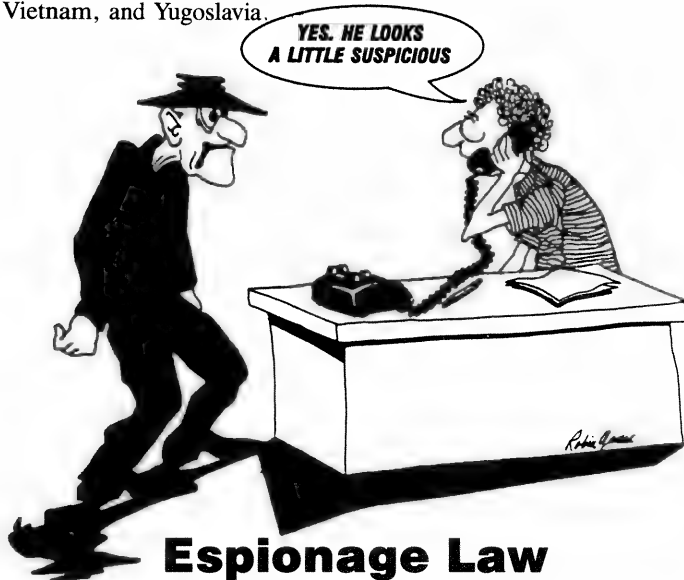
The Department of Defense has recently added several countries to the list of Communist countries shown on page 9 of the Security Handbook.

Remember that all employees, officers, consultants, and temporary help personnel who hold security clearances are required

to notify the Industrial Security staff prior to travel to or through a Communist country. This includes business or pleasure travel, regardless of geographic location, where you may come in contact with communist citizens. Your travel itinerary must be reported to the Security staff before you leave. You must check with Security immediately upon return to division facilities.

A listing of Communist countries is provided below for information. Those countries that were added recently are printed in italic type.

Afghanistan, Albania, *Angola*, Bulgaria, Cambodia, Peoples Republic of China (including Tibet), Cuba, Czechoslovakia, *Ethiopia*, German Democratic Republic (East Germany, including East Berlin), Hungary, *Iraq*, *Iran*, North Korea, Laos, *Libya*, Mongolian People's Republic (Outer Mongolia), *Nicaragua*, Poland, Rumania, *Southern Yemen*, Syria, USSR (including Estonia, Latvia, Lithuania, Kurile Islands, and South Sakhalin or Karafutol), Vietnam, and Yugoslavia.



Espionage Law

Under Title 18 of the United States Code, it is against the law —

- To tell or give classified information to anyone who is not cleared and who does not need to know it to do their own job
- To cause classified information to be lost or stolen because you did not obey the security rules when you knew them
- To fail to make a report to Security when you know that classified material has been lost or stolen, or classified information told or given to someone who is not cleared
- To injure or destroy national defense material

Penalties

- Up to life imprisonment for espionage or sabotage activities
- Ten years in Federal or State penitentiary and/or
- \$10,000 fine for other illegal activities



Security Quiz

The first five employees to call Industrial Security with the correct answers to the questions listed below will win two free tickets to the Reuben H. Fleet Space Theater, currently featuring the space shuttle film, "The Dream Is Alive."

The answers are in your Security Handbook.

Call Bob Rodriguez's office, 39535, by 3 p.m. on Monday, with your answers.

1. What steps must be taken prior to processing confidential material on a word processor or computer system?
2. How should you secure General Dynamics private, proprietary, and competition-sensitive material when not in use?
3. How often should the combination be changed on the lock of a Secret security container?
4. When do secret working papers have to be placed into classified document accountability records?
5. On an outgoing classified Visit Request, Form A468, is the term "Technical Discussions" adequate justification for approval of a classified visit?

Art & Editorial and Industrial Security employees are not eligible for an award.

Classified Computer Processing

Users of computer systems throughout the company are reminded that classified information may not be processed in any system that has not been approved by the government specifically for that purpose. The practice of coding, masking, or otherwise concealing classified information is prohibited.

Any department/office that anticipates a need for the processing of classified information in any type of computer system should contact Industrial Security for instructions.

Those organizations with systems that have been approved for classified processing are also reminded that magnetic media (disks, cassettes, mag tapes) containing classified information will be marked and protected in the same manner as classified documents. Unlike documents, however, media of this nature will not be considered "working papers." When this type of media is to be declassified or destroyed, a record of such action must be completed.

All secret ADP media must be placed into Document Control records as soon as possible after classified information has been recorded. Destruction, transmission, and reproduction will be processed through Document Control stations in the same manner as documents.

Need Help?

For security-related problems or questions, call your departmental security representative or Industrial Security, 39535.

Molina Addresses ASQC

Rudy Molina, Convair Division vice president - Quality Assurance, was the guest speaker at a meeting of the American Society for Quality Control (ASQC) held recently at the Bahia Hotel.

Molina addressed the topic of "Improving and Maintaining Customer Relations Through Mutual Understanding and Respect." A key issue covered was understanding the Federal Acquisition Regulations (FAR).

Having spent 35 years with the government and serving as the Director of Quality Assurance - DCASR-LA, Molina spoke from first-hand experience.

Others attending the meeting were Air Force Colonel Norman Neill, director of contracts - DCASR-LA; retired Air Force Major General Roger Peterson; Navy Captain John McKechnie, Commander - DCASPRO, and 255 ASQC members and guests from the San Diego and Palomar sections. Jerry Wilken, Space Systems Division Quality Engineer, was the program chairman.



Rudy Molina

Past Presidents Honored at October NMACC Meeting

The National Management Association's October dinner meeting will be held Thursday, October 24, in the Champagne Ballroom of the Sheraton Harbor Island East Hotel starting at 6:30 p.m. Sponsored by Cushman Dow - Convair general counsel, the meeting will honor past chapter presidents.

The guest speaker will be Gil Hamblet, vice president of industry and public affairs for TRW, whose subject will be an entertaining and thought-provoking look at "Things I Shouldn't Do," which includes results of a survey that asked 500 top executives what they would do differently if they could start over.

Tickets are \$10 for members, and \$17 for nonmembers. After buying your tickets, make table reservations through Debbie Dion, 49229.

Twenty-six past presidents have indicated they will attend.

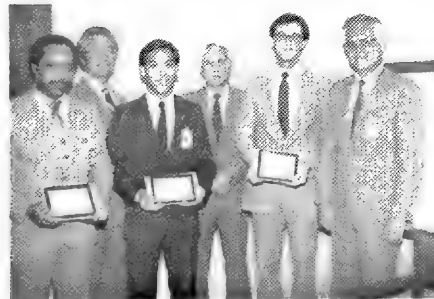
Value Engineering Workshop

Value Engineering workshops are designed to form and equip interdepartmental teams with the necessary skills and direction required to analyze and reduce the cost of a part, assembly, or process of a given program.

These teams seek methods to improve quality, producibility, reliability, and maintainability, while reducing costs but not compromising quality.

The first Value Engineering workshop of 1985 resulted in a change of material and manufacturing methods for producing Atlas and Centaur panel washers. The team's efforts resulted in a 60% reduction in the cost of these washers.

If you are interested in learning the Value Engineering techniques, the next workshop will be held from November 4 through 15. For more information, contact Dennis Bartlett, 75376, or Bill Frank, 38206.



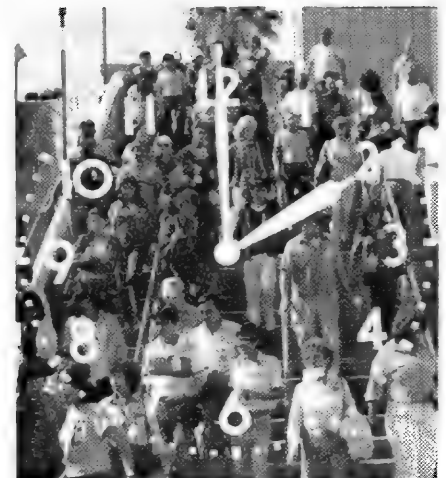
Left to right are Mike Ballare, senior manufacturing engineer; Dennis Bartlett, Motivational Programs and workshop instructor; Warren Gee, weights engineer; Bill Frank, Value Engineering coordinator; Chris Brand, structural design engineer; and Dan DaPra, Space Systems Division vice president - Research & Engineering.

September Retirees

Thanks and best wishes for a happy retirement to these employees who retired in September:

Name (Classification)	Years of Service
Frederick L. Allen Engineering Specialist.	29
Carl S. Booker Procurement QA Rep.	2

David C. Brewer Sr. Engineer	3
William D. Carpenter Aircraft Assembly Inspector	44
Walter H. Church LGNR Group Leader	29
Eddie F. Cox Material Project Coordinator	29
Margaret T. Cox Blueprint Machine Operator	33
Betty J. Delso Sr. Product Planner	17
William J. Dodd Plant Protection Officer	7
Cayetano A. Gonzales Research Test Lab Tech.	34
Ralph C. Hagley Engineering Specialist.	29
Bernard J. Hanzlik Wind Tunnel Model Builder.	30
Helen M. Johnson Custodian	8
William L. Johnson Offsite Base Launch Serv. Tech.	34
Harriet E. Madsen Sr. Tool Designer.	24
Ernest R. Maynard Lathe Machinist.	10
James F. McNerney Engineering Manager.	7
Ernest Ostrow Machine Group Leader	27
William H. Pfender, Jr. Sr. Data Systems Engineer	29
Barbara J. Skalocky Reproduction Typist	15
Albert J. Van Der Wische Sr. Project Engineer	29



It's that time again. Pacific Standard Time resumes at 2 a.m. on Sunday, October 27. Before going to bed Saturday night, set your clocks back one hour and enjoy the extra sleep.

Employment

For the week ending October 11, employment was 12,078.

CONVAIR *Weekly Log* SPACE SYSTEMS

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DCASPRO Change of Command



Captain Christopher (left) exchanges congratulations with Captain McKechnie.

In a Change of Command and Retirement Ceremony last Friday, Captain John J. McKechnie, Jr. – Supply Corps, United States Navy, turned over his command of DCASPRO, General Dynamics to Captain Donald D. Christopher – Supply Corps, United States Navy.

Captain McKechnie assumed command of DCASPRO on October 29, 1982. Upon relinquishing his command, he will retire from active duty, after 26 years of commissioned service.

Captain Christopher comes to DCASPRO General Dynamics from the Naval Supply Center, San Diego, where he was the director of Contracts.

Space Systems Division Represented in Stockholm

Don Charhut, director – Advanced Space Programs; Otto Steinbronn, manager – Space Station Program; Andy Robertson, structural design engineer; and Bill Ketchum, study manager – Orbital Transfer Vehicle, presented papers at the International Astronautical Federation Conference in Stockholm, Sweden, earlier this month.

Representatives from almost 50 countries met to discuss technology for the advancement of international, scientific space endeavors. The Space Systems Division attendees presented concepts on the use of AC power for the NASA Space Station, Orbital Transfer Vehicle operations, and large deployable-structure technology.

New Shuttle Centaur Test Facility



Participants at the groundbreaking ceremony from left to right: Paul Campos – Aerospace; Bill Wolz – Aerospace; Andy Calimbas – Space Systems NASA/DoD missions manager; Dr. Alan Lovelace – Space Systems vice president and general manager; Colonel Jerry Vanden Bosch – Air Force; Colonel Steve Richard – Air Force; Captain Emile Barchicat – Air Force; Dick Hora – Space Systems director of planning and administration; Red Robbins – NASA LeRC; and Marty Winkler – Space Systems Shuttle Centaur program director.

Groundbreaking ceremonies last Monday marked the start of construction for the Thermal/Acoustic Test Facility for the Shuttle Centaur G. The new facility — a joint project of NASA, the Air Force, and General Dynamics — will be located near the southeast corner of building 5 at Kearny Mesa. It will house acoustic and thermal chambers that simulate space-flight environments. The \$8 million project should be completed and validated within one year.

Galileo/Ulysses Presentations



Bill O'Neil of JPL (left) and Derek Eaton of the European Space Agency.

Two hundred-fifty Space Systems Division employees supporting the Shuttle Centaur Galileo and Ulysses missions were given a presentation on October 18 by Bill O'Neil, Galileo science and mission design manager – Jet Propulsion Lab, and Derek

Eaton, Ulysses project manager – European Space Agency. Both speakers emphasized the important role that Centaur plays in the success of these unique missions and thanked the employees for their considerable efforts to ensure a successful launch of both spacecraft in 1986.

Joan Sherley, Galileo/Ulysses mission manager, coordinated the presentation, and she has arranged another to take place within the next few weeks for employees who were unable to attend the first session.

Security Quiz Results

The following people won tickets to see "The Dream is Alive" at the Reuben H. Fleet Space Theater by calling in the correct answers to last week's security quiz: **Bob Serenc** – Manufacturing Technology.

Greg Jones - Thermal Control, **Bob Kish** - Printed Circuit Lab, **Todd Dirkschneider** - Component Test & Support Equipment, and **Ann Beecher** - Scheduling.

The correct answers to the quiz were:

1. The proper step to take before processing confidential, secret, or top secret material on a word processor or computer system is to contact Industrial Security for approval at least 90 days in advance.
2. General Dynamics private information must be stored in locked desks, files, or safes. Proprietary and competition-sensitive material must be stored in areas where nonemployees will not have easy access.
3. The lock combinations of secret security containers must be changed every six months for NATO and CRYPTO material, every 90 days for Cypher locks, and annually for all other security containers. Note: All combinations must be changed when an employee transfers or terminates.
4. Secret working papers must be placed into classified document accountability records when (a) the document is retained as a finished document (including working papers) for 30 days from the date of completion, (b) the document is retained as a partially complete document when work is discontinued, (c) when a document is reproduced, or (d) the document, at any stage of development, is temporarily or permanently transmitted outside of the facility.
5. The term "technical discussions" is not adequate justification for approval of a classified visit on an outgoing classified visit request form. State in detail the purpose and justification for the visit.

Does Payroll Have Your Correct Home Address?

Important information, such as W-2 forms and medical, dental, and/or drug cards, will be mailed to your home addresses in the next few months.

Now is a good time to make sure your address is correct. Look at your last paycheck. The address that appears on that check is the one that appears in all company records. If it's not correct, or if no address appears on your check, fill out a change-of-address card and a medical/dental change-of-address card, available in the Kearny Mesa and Lindbergh Field Employee Benefits offices.

Employment

For the week ending October 18, employment was 12,082.

Operations Employees Recognized



During the recent quarterly Employee-of-the-Month breakfast, Ken Lake, division vice president - Operations, and his staff commended employees for their superior performance and contributions. The following people were honored:

Manufacturing Engineering

Sammy Watson, Carol Taylor, Vern Burns, and Suzanne Damon.

Procurement

Ardelle St. George, Chuck Stewart, Tom Smith, and Jeb Dasteel.

AMS Product Line

Earl White, Dennis Holba, and Richard Reilly.

Manufacturing Control

Mary Garrido, Frank Ryan, Angie Diaz, and Judy Bowen.

Operations Administration

Dave Sisemore, Charles Snider, Mark Wilenbrink, and Jan Powell.

Space Production Line

Fred Westfall, Robert Finley, and Vito Tocco.

Fabrication & Tooling

Larry Durbin, Louie Palestini, Lew Hansen, and Victor Ruiz.

Plant Services

Gus Stephens, Ken Chestnut, Al Guerra, and Joy Stockton.

CM Production

Mike Shull, Bud Winner, Anthony D'Agostino, and Dale Clemens.

Aircraft Product Line

John Nonzeta, Bucky Weaver, Benito Chavez, and Al Gonzales.

Lovelace to Address NMACC

Dr. Alan M. Lovelace, vice president and general manager - Space Systems Division, will present the State-of-the-Division Address at the November National Management Association Convair Chapter dinner meeting. The meeting will be held in the Grand Ballroom of the Hotel Del Coronado on Thursday, November 21. NMACC boosters will begin selling tickets this week.

Utility Costs

We are now in the winter season for electrical billing, which means that the cost is higher during the peak period of the day from 6 a.m. to 8 p.m. You can help conserve energy and lower costs by turning off equipment and lighting not required for the second shift, and by scheduling large-load consumption during the off-peak period whenever possible. Please also remember to turn off nonessential and unused equipment and lighting.

Medical/Dental Open Enrollment

This year the deadline for changing your medical or dental plans is November 15. Enrollment information will be distributed to eligible employees this week.

Medical and dental plan changes will be effective January 1, 1986. If you elect to continue your present coverage, no action is necessary.

From the CRA Health-Fitness Center

Bodyfit. Mondays, Wednesdays, and Fridays from 5:30 to 6:30 p.m. in the CRA auditorium.

Rock A'Robics. 4:30 to 5:30 p.m. on Mondays and Wednesdays at the Missile Park bandstand, and Tuesdays and Thursdays in the CRA auditorium. New session begins October 28.

Workout. Mondays, Wednesdays, and Fridays from 4:30 to 5:30 p.m. in the CRA auditorium.

CONVAIR Weekly Log SPACE SYSTEMS

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Convair's 50th Anniversary in San Diego

Imagine packing 157 railroad freight cars and taking a 20-day journey from Buffalo, New York, to San Diego. That's exactly what Reuben H. Fleet did when he moved Consolidated Aircraft in 1935. October 20 marked the 50th anniversary of the move — the largest ever made by a company up to that time.

During the Great Depression of the '30s, it was risky business to pack up an entire factory and move lock, stock, and barrel from one coast to the other. But the severe winters of Buffalo impeded the development of the Catalina, the firm's famed flying boat. As it turned out, the move was a wise one. San Diego was ideal for building and testing the aircraft. When World War II threatened, employment jumped from 3,170 in 1940 to 33,000 in 1941.

Only days after Pearl Harbor was attacked, Fleet sold his controlling interest in Consolidated to Vultee Aircraft, another California aircraft maker. In 1944, the company became known as Consolidated-Vultee, or simply, Convair.

Convair produced 33,000 planes during World War II (primarily B-24 Liberator bombers and PB4Y patrol bombers or Catalinas), and supported 13 divisions in 10 states. At the height of production, the aircraft giant employed 45,000 people in San Diego alone.

In 1953, Convair was sold to General Dynamics Corporation. Since that time, it has continued to be a leader in the aerospace and defense industries. Reuben Fleet's venture 50 years ago helped to shape San Diego's economy and the lives of thousands for years to come.



A PB4Y on display at the 1935 dedication ceremonies for Consolidated Aircraft at Lindbergh Field.

Take Time For Time Cards

This is the first in a series of articles to help you prepare time cards properly and gain a better understanding of the importance and logistics of timekeeping.

One of the frequent misunderstandings regarding time cards is the proper procedure for signing them. Here are some guidelines to often-asked questions:

When do I sign my time card?

Cards should be signed in black ink at the end of the last working day of each week to certify all labor and time entries for that week.

If I have multiple cards for one week, when do I sign the extras?

Again, sign the cards at the end of the

week, or before you release them to Time-keeping.

What if I am absent on the last day of the week due to illness, company travel, etc.?

Your supervisor will enter "N/A" in the employee signature block of your time card and will write a brief explanation on the reverse side of the card.

When does my supervisor sign my time card?

After you complete and sign your time card, give it to your supervisor, who in turn verifies that the card is properly completed, signs it, and releases it to Time-keeping.

If you have any questions regarding your time card, contact Labor Accounting at 24648.

Computer-Controlled Autoclave

Convair's first computer-controlled autoclave was recently installed in the north end of Lindbergh Field's building 3. This marks the first major piece of equipment for the composites area expansion currently under way.

The autoclave is a major advancement for Convair into a more exact control of process variables required for quality composite parts and represents an excellent cooperative effort between Plant Services, Composites Fabrication, and Manufacturing Technology. All existing and future cure facilities will acquire this capacity during the next few years to fully implement automated control in a planned retrofit and expansion program.



Manufacturing Technology engineers Andrea Dunhan, Robin Arthur, and operator Tom Brown with the computer-controlled autoclave.

CRA Improvements

The CRA has recently made substantial improvements to Missile Park. The improvements include the addition of decorative fencing, construction of a new shower and locker facility, a multi-purpose athletic field, a renovated softball field, and a one-third-mile jogging track. Other improvements include sidewalks, park benches, and a paved parking lot with access from Clairemont Mesa Boulevard. The bandstand was completed, the merry-go-round was covered, and block walls were erected around the playground equipment areas.



The shower and locker room is a major addition to Missile Park.



The regulation softball field has been completely renovated.

Focus on Test Labs

November's Focus on Test Labs series, sponsored by the National Management Association, puts the spotlight on hydraulics and will feature Dennis Uhlken and John Routson. This series provides administrative and non-technical employees a rare opportunity to examine the technical capabilities of our company. Presentations are designed to enhance technical understanding and increase employee interest in the company's technical pursuits.

First-time attendees should call Frances, 38576, to register. The November program will be held on Wednesday, November 13, in the Kearny Mesa building 2 presentation room, between 4:45 and 6:00 p.m.

Employment

For the week ending October 25, employment was 12,076.

From the CRA Health-Fitness Center

Workout. Mondays, Wednesdays, and Fridays at 4:30 p.m. in the CRA auditorium. New session starts November 11.

For more information, call the Health-Fitness Center, 39921.

Pomona Dialing Change

Effective today, the network access code for the Pomona Division Diamond Bar facility has changed from 668-xxxx to 693-xxxx.

Dining Room Smoking Areas

The issue of smoking is heading towards "smoke-free" areas. Our current policies prohibit smoking in many areas and accommodate the needs of nonsmokers in the work place.

Soon we will designate our dining areas at Kearny Mesa and Lindbergh Field as smoke-free areas. However, to recognize the need of smokers, an area within the dining rooms will be provided that will allow smoking. The objective is to subtly, rather than strongly, identify the smoking areas.

We plan to start with the Kearny Mesa dining facility first, and we ask your help and cooperation with this pilot program designed to accommodate the increasing number of nonsmokers.

Volunteers Needed for American Enterprise Program

If you would enjoy presenting programs on American economics to local schools and community service clubs, helping youth develop a business through the Partnerships in Education program, or assisting in various educational projects such as career guidance and science fairs, then the American Enterprise Program needs your skills. Call Phil Moore, 26150, for more information.

Safety Tip

According to the National Highway Traffic Safety Administration, more than 50% of traffic-related deaths and injuries suffered each year can be prevented by simply buckling up and properly securing children in child safety seats attached to the seat belt system in the car.

For information regarding low-cost child safety seat rentals, contact the Kids In Safety Seats (KISS) program at the American Red Cross, 291-2620.



Excellence in Safety. Larry Wray (center), Space Systems' manager of Systems Engineering, recently presented EXCEL awards to Phyllis Niski and Marty Martins of Department 877-0, Interface Development, for their outstanding contributions to the Shuttle Centaur Program. Their professionalism and dedication as part-time members of the Safety Review Team earned NASA's praise and appreciation.

Phone Books Available

Additional phone books have been printed and are now available in the Mail Room and Division Distribution at Kearny Mesa. You may pick them up personally, or call 38185 for other arrangements.

Security Lock Combinations

The Sargent and Greenleaf changeable combination padlock and built-in combination locks on approved containers are the only locks authorized to secure classified material. Company private or other unclassified material need be secured only with a key-operated padlock or desk lock.

Combinations to these locks are classified to the level of the material being protected. Any written combination is considered a classified document and must be marked with its classification and protected as a classified document. Written secret combinations must be placed in classified document accountability records in the same manner as any other secret document. You cannot keep combinations in wallets, purses, desks, or other unauthorized places — commit combinations to memory.

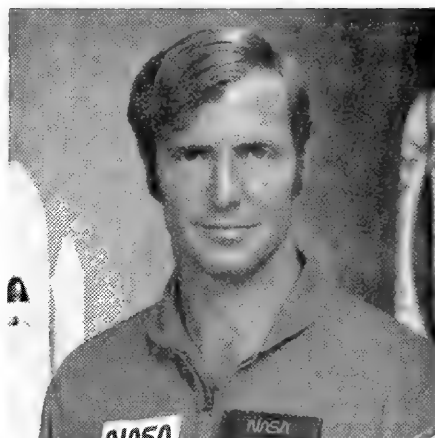
The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair and Space Systems divisions. If you have stories of interest, please call Cal Samuels, 39955, or send them to MZ 33-1334.

Published by the Convair & Space Systems Divisions of General Dynamics

Astronauts to Address Space Systems Employees



Captain Rick Hauck, USN



Captain Dave Walker, USN



James van Hoften, PhD



Lieutenant Colonel David Hilmers, USMC

400th Tomahawk Cruise Missile Delivered

Several hundred Convair employees gathered at the Kearny Mesa employee dining room Wednesday to be recognized for their dedicated efforts resulting in a successful recovery plan for cruise missile production. The recent delivery of the 400th Tomahawk marked this dramatic recovery and placed Convair ahead of the contracted production schedule.

Mike Keel, vice president and program director - Cruise Missile Programs; Ken Lake, vice president - Operations; Rudy Molina, vice president - Quality Assurance; and Ed Squires, vice president - Cruise Missile Product Line, expressed their appreciation for the excellent teamwork and commitment the employees demonstrated during the past year.

Take Time for Timecards

Many people are confused as to when supervisors can make entries on employee's time cards. Following are some answers to often asked questions:

Can a supervisor or group leader maintain an employee's time card?

No. Division policy requires each employee to fill out and sign his or her own time card.

What if the employee is gone on the last day of the week?

If an employee is not available when time cards are due, the supervisor may complete that day's accounting information and annotate the employee signature block with N/A. These entries should be initialed, and an explanation provided on the back of the card.

(See Time Cards on back)

As part of the campaign kickoff for "Quality Manned Flight Awareness," a motivational program sponsored by the Space Systems Division, four astronauts will address the employees involved with the Shuttle Centaur program on Thursday, November 14.

Captain Dave Walker, USN, and James van Hoften, PhD, will speak at Kearny Mesa between 12:00 and 1:00 p.m., while Captain Rick Hauck, USN, and Lieutenant Colonel David Hilmers, USMC, will address the Lindbergh Field employees between 12:30 and 1:30 p.m.

The four astronauts are members of the first two Shuttle/Centaur missions scheduled for launch next May. The Ulysses mission - an international mission sponsored jointly by NASA and the European Space Agency - will orbit Jupiter and "sling-shot" out to explore the polar regions of the sun. Within one week of the Ulysses launch, the Galileo mission will begin its journey to Jupiter to gather solar system data and investigate the chemical composition of the planet's atmosphere.

Crew assignments for the Shuttle/Centaur missions are:

Ulysses Mission

Launch:

May 15, 1986

Captain:

Frederick H. Hauck
(Capt., USN)

Pilot:

Roy D. Bridges (Col., USAF)

Mission Specialist:

David C. Hilmers (Lt. Col., USMC)

Mission Specialist:

John M. Lounge
(MS, Astrophysics)

Galileo Mission

Launch:

May 21, 1986

Captain:

Dave Walker (Capt., USN)

Pilot:

Ronald J. Grabe (Col., USAF)

Mission Specialist:

Norman Thagard (MD)

Mission Specialist:

James D. van Hoften
(PhD, Fluid Mechanics)

From Employee Benefits

If you haven't already, you will soon receive medical/dental plan enrollment information. If you plan to change medical or dental plans, you may obtain enrollment forms from the Employee Benefits office during the following hours:

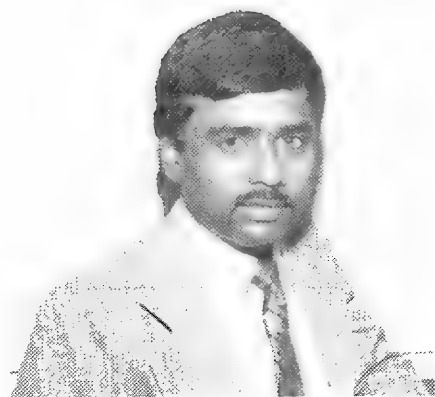
- **Kearny Mesa:** 7:00 to 7:30 a.m., and 11:00 a.m. to 4:00 p.m., Monday through Friday
- **Lindbergh Field:** 7:00 to 8:00 a.m., and 12:00 to 3:45 p.m., Monday through Thursday, and 12:30 to 3:45 p.m. Friday.

The deadline for changing plans has been extended to November 27, for an effective date of January 1, 1986. **If you elect to continue your present coverage, no action is necessary.**

Convair Represented at OIR Users' Meeting

Prem Maragani, project manager - Group Technology, recently made a presentation at the Organization for Industrial Research (OIR) meeting in Boston. As one of the largest gatherings of group technology users in the world, the meeting comprised delegates from major high-technology firms in America.

Addressing the theme of how group technology contributes to computer-integrated manufacturing, Prem spoke on the topic of "Group Technology: a Strategy for Successful Implementation."



Manufacturing Technology's Prem Maragani

From the CRA Health-Fitness Center

Workout. Mondays, Wednesdays, and Fridays at 4:30 p.m. in the CRA auditorium. New session begins November 11.

Bodyfit. Mondays, Wednesdays, and Fridays at 5:30 p.m. in the CRA auditorium. New session begins November 18.

Time Cards (continued from front)

Does the same procedure apply if an employee ends the shift at a plant different from his work station?

The procedure here is essentially the same. When the employee leaves his or her work station for another plant, a check mark should be entered against the appropriate charge number, indicating that this is the task in work. When the time cards must be picked up for processing, the supervisor may enter the appropriate number of hours to the end of the shift.

How do we handle time cards for employees on travel during the week?

In these cases, it is permissible for the supervisor to enter the basic charge number on the TDC and a check mark for each day that the employee is on travel. When the employee returns, the appropriate hours for each day may be filled in. Procedures for employees on extended travel or permanently off-site may be obtained from Labor Accounting, 24648.



Suggestions Earn Profits. *Jim Annis, director - Manufacturing Engineering (center), presents a \$10,000 Employee Suggestion Award to Gib Gilbert (left) and Gordy Lundquist for their idea to use friction welding on Atlas fuel mandrels. The suggestion yielded a projected savings of \$7.9 million.*

McKechnie Retires with Good Memories

Captain John J. McKechnie, Supply Corps, USN, of DCASPRO at General Dynamics, recently retired, and he sent a letter (excerpted below) to Convair Vice President and General Manager John McSweeney:

On the eve of my retirement from active Naval service and departure from DCASPRO General Dynamics, I must confess that I have nothing but good feelings — good in that my association with you and your organization has been a significant and positive experience.

I believe now more than ever that without mutual respect, open dialogue and forthright dealings among all parties involved in systems acquisition, prices will climb, quality will decline, and deliveries

will fall behind. I urge you to keep up the daily battle for good communications, for it needs to be nurtured daily or we are all doomed to failure.

Your recent successes with zero defect deliveries and the recent high rates of delivery are my successes also and I thank you for them. Convair has shown me to be an organization of dedicated and motivated professionals, and I wish you many more years of success.

Please extend my appreciation to your vice presidents, directors, managers, and employees for their cooperation and outstanding efforts.

Spring Semester Inplant Courses

To clarify the recently published *Educational Bulletin* for inplant community college courses, the following classes are offered at the Kearny Mesa Plant: Related Tech Math, 3-D Graphic Development, Dimensioning & Tolerancing, and Advanced Industrial Blueprint Reading. These courses will be held in building 17. Consult your *Educational Bulletin* for complete details.

October Deliveries

Against a contract requirement of 14 production Tomahawk cruise missiles, Convair completed and delivered 20 new production vehicles during October. This marked the first time since September 1984 that the cumulative contract schedule has been exceeded. In addition to the new production vehicles, 13 flight test/maintenance missiles were delivered.

Eight GLCM-unique units (four TELs, three LCCs, and one trainer) were also delivered to the government, exceeding the contract requirement for five units.

Security Tip

Each department is required to appoint as many departmental security representatives as necessary to maintain an effective security program within its areas of responsibility. Since many departments have several locations, one representative cannot provide adequate coverage. Security representatives are salaried employees who hold a security clearance that authorizes access to the highest classification level of material within the department. Candidates should be selected based on prior security experience or interest in security matters.

Employment

For the week ending November 1, employment was 12,062.

Published by the Convair & Space Systems Divisions of General Dynamics

BGM-109D Completes Test

The submunition variant of the Tomahawk cruise missile successfully completed its first development flight test at the Tonapah Test Range, Nevada, on November 8. Launched from a ground launcher, the BGM-109D flew a preplanned course within the range before simulating attacks on two targets, dispensing submunitions on each at the command of its internal computer.

The universal payload bay of this newest Tomahawk is designed to carry submunitions in packs that eject to each side of the missile during flight. Tests have shown these bomblets to be very effective against aircraft on the ground or in shelters or barricades.

The submunition version is designed for launch from submarines and surface ships, and it will be compatible with both horizontal and vertical launch systems.

Tomahawk AUR Team Recognized



From left to right are Mike Paesani, Operations supervisor - Sycamore Canyon; Pete Kelley, Operations supervisor - Final Assembly; and Dave Berry, Operations chief - Sycamore Canyon, who received Extraordinary Achievement Awards at the AUR meeting.

An all-hands meeting to recognize the outstanding achievements of the Tomahawk All-Up-Round team was recently held in the main dining room at Kearny Mesa. During the past five months, the team has averaged 25 new production and 10 maintenance missiles, placing the cumulative production rate above contractual requirements and reaching a milestone of more than 400 vehicles delivered.

In addition to the production rate, the team was also praised for contributing to 19 successful test flights in 1985 with no

failures. Mike Keel, division vice president and Cruise Missile program director, told the employees, "This is an unprecedented event in the history of (such) missile flight test programs."

Ken Lake, division vice president - Operations, presented group EXCEL awards to the Transportation department and the Kearny Mesa Paint department in recognition of their outstanding around-the-clock support of missile production.

Hosting the meeting, Ed Squires, division vice president - Cruise Missile Product Line, said, "We should all take pride in the accomplishments of the first Convair team to achieve or exceed monthly production rates of 35 vehicles since the fighter plane programs of the 1950s and 1960s."

DCASPRO Acclaims Tomahawk Program

John McSweeney, general manager - Convair, received the following letter from Captain Donald Christopher, SC, USN, who recently assumed command of DCASPRO - General Dynamics.

I note with considerable satisfaction the production and delivery of 20 Tomahawk cruise missiles during the month of October. This is particularly pleasing as it brings net actual deliveries ahead of contract requirements for the first time since September of last year. I look forward to the continuation of the delivery trends experienced over the last five months, each of which showed actual deliveries in excess of requirements.

I would be remiss if I didn't also mention Convair's efforts in producing quality hardware. Quality must remain paramount in our minds as we work together to maintain current production rates - a delivery of non-conforming material is really a non-delivery.

Please convey my congratulations to the entire Tomahawk team for your success in achieving this milestone.

Sincerely,

44 CCH
D.D. Christopher
Capt, SC, USN
Commander

State-of-the-Division Address

Dr. Alan Lovelace, vice president and general manager - Space Systems Division, will deliver his first State-of-the-Division address for Space Systems at the National Management Association meeting in the Grand Ballroom of the Hotel del Coronado on Thursday evening, November 21.

Take Time for Time Cards

The following guidelines are provided to inform you of the procedures for processing time cards at the end of the week.

- After you have totalled and verified the accuracy of your card, give it to your supervisor no earlier than 30 minutes prior to the end of the shift.
- Supervisors verify all entries and calculations, sign them, and deposit them in the time card drop area no later than 30 minutes after the end of the shift. Late submittals could result in incorrect payments to employees.
- When working overtime on Fridays, employees should hold their cards until shortly before completing the overtime assignment.

Questions on proper timekeeping procedures can be addressed to Labor Accounting, 24648.

Security Update

Defense Investigative Service representatives completed their semiannual security inspection. While our overall rating was satisfactory, a number of noted discrepancies require corrective action. Industrial Security is initiating corrective action where required.

The Security Department thanks everyone involved with the DIS inspection and encourages continued efforts toward an effective overall security program.

Technical Publications Services Available

Do you need to prepare technical reports, Contract Data Requirements Lists, Engineering Research Reports, viewgraph presentations, or other contract-related reports? The Technical Publications' reports group at Kearny Mesa, 74989, and Lindbergh Field, 27611, is expanding its serv-

—OVER—

ices to better meet your needs.

The reports group has a professional staff of editors and reproduction typists to edit and process any **contractually** required report or presentation. **Illustration** services are also available, as well as security-approved classified word processing capabilities.

Smoking Area

As previously announced in the *Weekly Log*, the designated smoking area is now established in the Kearny Mesa dining room. Your cooperation is requested in support of this program.



Employees of the Month. Dick Powell (left) and Art Dilley (center), Cruise Missile Inspection supervisors at Sycamore Canyon, recently received EXCEL awards as Quality Assurance's Employees of the Month for October. Rudy Molina, division vice president - Quality Assurance, presented the awards and congratulated them for outstanding performances.

Library Closure

The Kearny Mesa Plant Library will be closed today through Wednesday for inventory.

Composite Technology Conference

Convair recently hosted the first annual Corporate Composite Technology Conference. The conference served as a forum to discuss the divisions' technical thrusts, capabilities, and facilities. Splinter groups investigated division IRAD coordination efforts to maximize technology return with minimum investments.

Health-Fitness Center

Bodyfit. Mondays, Wednesdays, and Fridays at 5:30 p.m. in the CRA auditorium. New session begins November 18.

Weight Loss Contest Before the Holidays. November 20. Register at the Health-Fitness Center.

Employment

For the week ending November 8, employment was 12,080.

Teleconference Video Cassette Available

A video cassette explaining the use of teleconferencing is now available for viewing. Produced by General Dynamics and written by Convair's Sam Long, this cassette outlines the freeze-frame technique that allows immediate visual transmission of charts, viewgraphs, drawings, and other media during a teleconference.

The tape will be shown daily in Kearny Mesa's building 4 teleconferencing room. Call 75333 to schedule a viewing.

Phone Changes

Effective today, Pomona Division has a new main telephone number — (714) 868-1000 — and all new extensions. Network dialing remains the same: 8 + 668 + extension. Pomona phone directories will soon be available through Division Distribution.

Also effective today, our inplant voice pagers will change to a five-digit number. The first two digits will be 00, and the last three will remain the same. For example, 378 is now 00378. The access number to the inplant paging system is not affected.

Savings and Stock Plan Values for September 1985

	1983	1984	1985
Salaried			
Government Bonds	\$ 3.5559	\$ 3.8474	\$ 4.4171
Diversified Portfolio	3.1968	3.1936	3.7712
Fixed Income	1.5588	1.7510	1.9703
Hourly			
Government Bonds	3.5541	3.8445	4.4170
Diversified Portfolio	3.2628	3.2388	3.7996
Fixed Income	—	—	1.9611
GD Stock	\$53.6250	\$60.7500	\$69.6250

Convair and Data Systems Team Up to Master the MPL

At a recent recognition dinner, Paul Cofoni, Data Systems Division vice president and Western Center director, and Joe Stelmah, director - Operations Administration, presented group EXCEL awards to employees for their superior performance in implementing the Master Parts List (MPL) system for the Cruise Missile Program.

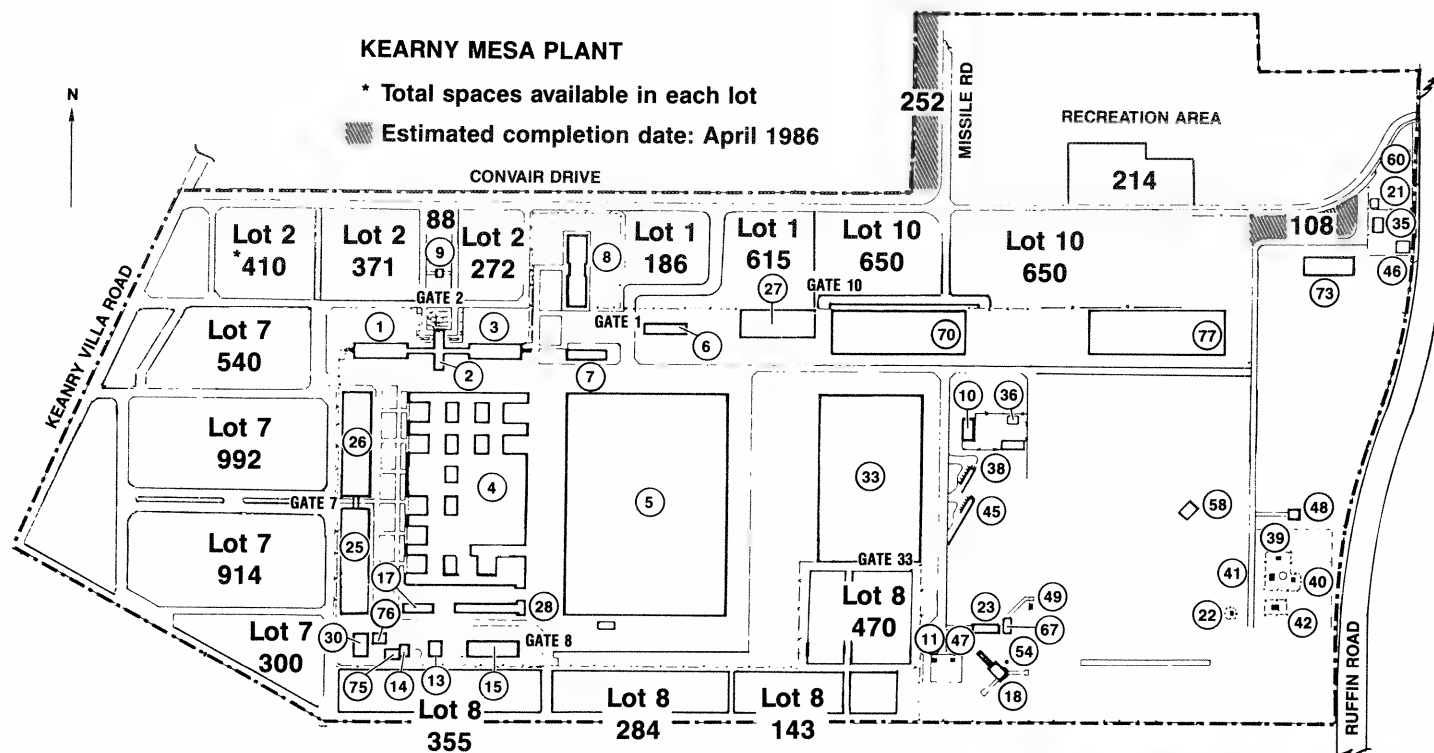
The MPL — a system that allows visibility and traceability of parts requirements — replaces the Planning Control System, and creates an on-line data management system to better maintain the integrity of the product.

During the awards ceremony, Paul Cofoni said, "A key success factor during the MPL conversion was the customer [Convair] commitment." Joe Stelmah added, "This was the smoothest, easiest, trouble-free conversion that we have done."



Kudos to the EXCEL recipients of Production Engineering, Manufacturing Control & Scheduling, Operations Business Systems, Manufacturing Engineering, and Data Systems Division - Western Center.

Published by General Dynamics' Convair & Space Systems divisions



As part of the Kearny Mesa plant renovation project, the west side parking lots are currently being repaved to provide you with better parking areas. These lots, comprising 3,160 parking spaces, are scheduled to be completed by December 15.

During the construction period, certain difficulties have arisen which need to be addressed. First, alternate parking spaces are available, and there is no need to park on the roadside of Electronics Way, in commuter or handicapped spaces, or in reserved spots and no-parking zones. Secondly, please park in an orderly manner so as not to take up additional spaces. Finally, your patience is solicited to make this transition period a smooth one.

Future construction plans include additional parking areas by April 1986. Combined with the already completed parking lot at CRA, a total of 814 additional spaces will be created on our property.

**Since this is a short work week,
we will not publish a *Weekly Log*
next Monday, December 2.**



Quality Payoff. *Tom Edwards, Cruise Missile inspector at Sycamore Canyon, receives an Employee Suggestion check for \$8,555 from Rudy Molina, division vice president – Quality Assurance. Tom's idea to expand the use of Quality Completion Orders helped reduce the number of QARs generated.*



Shuttle Centaur team members at the campaign kickoff are (left to right) Dr. Alan Lovelace, Donald Cowser, Gregori Bini, Captain Rick Hauck, Marty Winkler, and Captain Donald Christopher, SC, USN - Commander, DCAS-PRO.

Quality Manned Flight Awareness Campaign Kicks Off

Dr. Alan Lovelace, general manager – Space Systems Division, recently kicked off a motivational campaign on Quality Manned Flight Awareness. He explained to a Lindbergh Field audience that the program is designed to keep this new Centaur requirement – crew safety – highly visi-

ble as we approach the Shuttle/Centaur launch dates in May 1986. Captain Rick Hauck, USN, also addressed the Shuttle Centaur team.

Hosted by Ken Lake, division vice president - Operations, and accompanied by Captain Dave Walker, USN, a similar kickoff took place at the Kearny Mesa plant.

At the kickoff meetings, it was announced that 15 employees, and their spouses or family members, will win an expense-paid trip to see one of the launches next May. Gregori Bini - Department 002, Donald Cowser - Department 028, and Madan Bera - Department 878, were the lucky first winners. Two more names will be drawn each month between now and next May.



Super Magnet. The longest superconducting magnet ever manufactured was recently completed and shipped by Space Systems Division Energy Programs to the Texas Accelerator Center near Houston. Transported on a special 100-foot-long truck, the dipole magnet is 92 feet long, 17 inches in diameter, and weighs 16,000 pounds. The prototype magnet will be used for development of the Superconducting Super Collider facility - a 100-mile circumference particle physics research facility.

Educational Services' Facilities Improved

Those of us who have ever attended classes in building 17 at Kearny Mesa or in building 14 at Lindbergh Field can attest to the fact that these facilities were in need of modernization. Last June, refurbishment of these training centers began, and now, with the exception of a few details, the work is completed. Educational Services is conducting classes in building 14, and is in the process of resuming instruction in building 17.

October Retirees

Thanks and best wishes for a happy retirement to these employees who retired in October:

Name (Classification)	Years of Service
Robert D. Fitzgerald Publications Editor	7
Earl E. Hansel Material Project Analyst	29
John C. Herman Senior Engineer	24
Edward R. Hood, Sr. Senior Engineer	15
Harry W. Lusk Material Process Analyst	27
Vivian M. Scroggins Secretary	29
Gerald V. Smith Engineering Manager	31
Harry S. Wurtz Contracts Director	23

Automatic Gate Access to Improve Plant Security

As part of the ongoing efforts to increase security within our facilities, computer-controlled turnstiles are planned at all plant gates. The first turnstile will be installed at Kearny Mesa's Gate 7 between buildings 25 and 26 and will utilize the new ID badges with the magnetic strips.

Under the new system, each employee will be asked to select two gates that he or she would normally use during the course of a day. These gates will then be programmed into the computer and will allow you automated access to the facility. Plant Protection officers will be available at all entrances to let you through a different gate should the need arise. For commuters, the system can be programmed for all the facilities.

Why only two gates? This reduces the opportunity of unauthorized use of someone else's badge. You can still enter through any gate; however, if you're not programmed for a particular gate and need access, the plant protection officer will assure that the photo on your badge matches you. If a badge is used at a gate that is not programmed for access, a signal will sound, and the plant protection officer at this gate will assist the individual. The new system is scheduled to be completed at Kearny Mesa during the first half of 1986, and at Lindbergh Field by year end 1986. Gate 7 at Kearny Mesa is scheduled to be operational in early December. If you use that gate, please ask your supervisor to arrange for your new badge. This system will require everyone's cooperation. Please help us make our facilities as secure as possible.

Convair Division Inventors

United States patents were recently issued to Jim Clifton and Ron Carlson of Department 471-0 - Manufacturing Technology, for an adjustable nosepiece for a high-speed drill motor. This invention permits drilling holes of precise depth despite varying drill bit lengths. Another patent was granted to Ron for a power-feed drill unit that utilizes the adjustable nosepiece concept.



Jim Annis, director - Manufacturing Engineering (center), presents Ron Carlson (left), and Jim Clifton with their U.S. Patents.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair and Space Systems divisions. If you have stories of interest, please call Cal Samuels, 39955, or send them to MZ 33-1334.

Holiday Visitation Requests

With the advent of the Christmas season, many departments will soon be making plans for in-plant luncheons. In the past, some groups have invited former employees. Tightened security regulations require that only visitors on official company business be allowed in the plant.

The Industrial Security department asks for your cooperation and adherence to this policy.



Happy Thanksgiving

Employment

For the week ending November 15, employment was 12,078.

CONVAIR *Weekly Log* SPACE SYSTEMS

Published by General Dynamics' Convair & Space Systems divisions

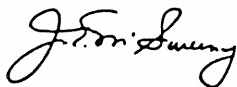
Last week the Navy announced that it has suspended General Dynamics Corporation from obtaining any new contracts with the Department of Defense and other agencies of the Executive Branch. The suspension is based on an indictment returned by a Federal grand jury in the U.S. District Court in Los Angeles, California.

The indictment charged General Dynamics and four of our highly respected present and former employees for cost-accounting judgments that were made more than five years ago. The company and the individuals intend to contest these charges vigorously.

We believe the issue to be a highly sophisticated regulatory and accounting matter. Normally, differing interpretations of these matters would have been resolved in a civil forum, such as the Armed Services Board of Contract Appeals. As our Company and Divisions have continued to experience, this latest issue has been dramatized in the "circus atmosphere" of the press.

We know that the individuals involved in this case were honest in their judgments and acted in complete good faith. This will be demonstrated, as in the past, on familiar issues of allowable cost and quality. In those cases, the press had large headlines on the problems but little or none when problems were resolved or no significant problems were found. We are confident that when our side is heard, we will prevail.

The suspension is for a temporary period pending completion of the legal proceedings initiated by the indictment. The notice of suspension provides General Dynamics the opportunity to submit and present information in opposition to the suspension within 30 days. The important work being done by Convair and Space Systems in the support of national security will continue. The suspension does not affect contracts already awarded to General Dynamics, but extensions and new awards will have some delays.



J.E. McSweeney
Vice President and
General Manager
Convair Division



A.M. Lovelace
Vice President and
General Manager
Space Systems Division

Space Systems State-of-the-Division Address



The November National Management Association Convair Chapter meeting held at the Hotel del Coronado featured Space

Systems Division General Manager Dr. Alan Lovelace, who delivered his first state-of-the-division address. Lovelace recapped our excellent Atlas and Centaur program history, emphasizing that "Centaur has been the workhorse of all United States deep-space missions."

Lovelace then reviewed the key events that occurred during 1985. All Atlas and Centaur launches were successful, the first Shuttle Centaur upper stage was rolled out in August, construction began for a Shuttle Centaur Thermal/Acoustic Facility, Contracted Research and Development (CRAD) awards doubled previously set goals, and the Orbiter Mid-Fuselage and Energy Magnet programs continued their successes.

(See *State of the Division* on back page)

Another Successful GLCM Flight Test

GLCM T366:1 was successfully launched from a TEL at the Utah Test and Training Range on November 26 and flew a typical GLCM mission of approximately two hours.

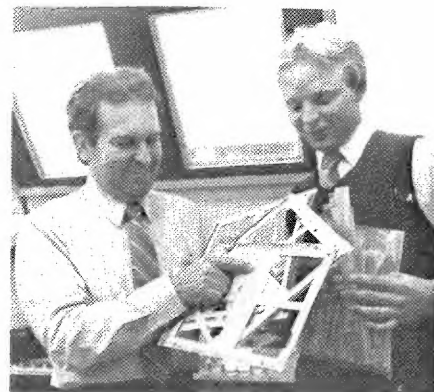
The missile was recovered after the planned target overflight, and review of the data indicates all flight test objectives were accomplished. This flight test was the eighth in a series of 13 flights in the Air Force Follow-on Test and Evaluation Phase II program.

Precious Metal Reclaim Program

Growing awareness of the benefits of recycling materials prompted Convair's Property Administration department to begin a Precious Metal Reclaim Program in 1983. Plating labs, photo labs, assembly areas, and material review cribs generate large amounts of excess or scrap components, circuit boards, and other gold- and silver-plated material and solutions that are gathered and eventually shipped to be refined and reused.

Arrangements are currently being made for the refining and/or processing of all excess precious metals on hand. To maximize the efforts of this program, it is important that all areas be checked for residual material that could be reclaimed. Standard Practice H2-10 provides detailed procedures for processing this material.

For further information, contact Mike Henson, 75438.



Bob Kish, supervisor - Circuit Board Lab (left), points out the gold plating on a circuit board to Mike Henson, Property Administration.

State of the Division (Cont'd)

Looking to the division's future, Lovelace highlighted Advanced Space Transportation programs, a comprehensive DoD/NASA-sponsored Space Transportation Architecture Study, programs in support of the President's Strategic Defense Initiative, and other space exploration programs that could involve the Space Systems Division well into the Twenty-First Century. He concluded his address by saying, "The sky is not the limit — it's only the beginning."

Holiday Power Outage

There will be a complete shutdown of all electrical power, heating, air conditioning, and compressed air at the Kearny Mesa plant from December 24 at 12:15 a.m. until January 1 at 8:00 p.m. All areas, except buildings 70 and 77, will be affected. The chilled water plant in building 33 that provides air conditioning for building 70 will also be affected.

Electrical service to buildings 33, 10, 18, and 23 will be restored on December 27 at 7:00 a.m.

Electrical services will be restored to the DSD computers in building 4 on December 24 at 6:00 p.m. There will be no chilled water available in the computer area from the central chiller plant from December 24 at 12:15 a.m. until January 1 at 8:00 p.m.

This major outage is required to replace 20 electrical transformers that contain PCBs, including those in the primary substation serving the Kearny Mesa plant.

If you need emergency power for refrigerators or freezers containing high-dollar items, or if you have any questions, please contact Joe Dragonetti, 28000.

Security Tip

If you have been briefed for COMSEC information, and it has been more than a year since your last annual briefing, please contact Industrial Security to make immediate arrangements for a rebriefing. If you no longer require access to COMSEC information, or if your department has more than the minimum number of cleared employees required to accomplish classified COMSEC tasks, contact Industrial Security for the required debriefing.

These are mandatory DoD requirements and must be complied with on a timely basis. Contact Industrial Security, 39535, for briefing or debriefing arrangements.

NMACC Christmas Dinner Dance

The National Management Association Convair Chapter will hold its annual Christmas Dinner Dance on Friday, December 20 at the Hotel Inter-Continental. This year's event will feature dancing to Bill Greene's orchestra.

In order to secure your table reservations this year, you must have your ticket numbers before calling Debbie Dion, 49229. When you call, you will be given a group number instead of a table number. A few days before the dinner, numbers will be drawn at random and each group assigned a table number in the order drawn. This will enable everyone to have an equal chance to be seated in the more popular areas.

Tickets for this event sell out fast, so see your NMACC booster soon.

New Employees

New Employee Orientation will not be held on December 9 or 23.

Smoking Areas

Due to the positive response to the designated smoking area at the Kearny Mesa employee dining room, a similar area has now been established at the Lindbergh Field dining room.

A Profile in Commitment



From left to right are Kevin Calvo, Lois Wood, Bernie Freund, and Maurie Streiff with the new prosthetic unit.

While some may express sympathy for a person who has encountered a physical mishap, others show concern by actually assisting that person toward returning to a normal daily routine. When Lois Wood, secretary - Dual Source Program office, was fitted with a prosthesis after an auto accident, there was a problem with its weight and aesthetic features. Bernie Freund, chief - Special Purpose Processors, and close friend of Lois, designed a special prosthetic ankle for her.

After sharing the idea with Lois' prosthetist, Kevin Calvo - Bionics of La Jolla, Bernie consulted Maurie Streiff, a senior engineering specialist in Electro-Optic Technology, with the concept of a new prosthetic unit. With further technical assistance from Bruce McArthur, Image Processing, Maurie gave of his own time at home to improve the design and fabricate a new ankle that would fit Lois' prosthesis, substantially reduce the weight, and still be aesthetic.

These concerned Convair employees demonstrate the value of applying aerospace engineering techniques to assist the needs of the physically disadvantaged.

The *Weekly Log* is published by Industrial Relations for employees of General Dynamics Convair and Space Systems divisions. If you have stories of interest, please call Cal Samuels, 39955, or send them to MZ 33-1334.

Employment

For the week ending November 29, employment was 12,102.

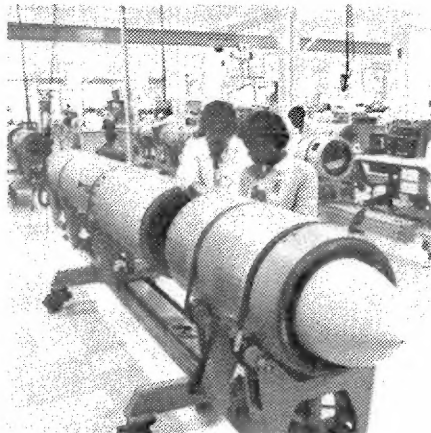


Service Award Breakfast. The following employees were recognized by Convair General Manager John McSweeney for 35 and 45 years of service. From left to right, first row: George Eggert, Dick Bloom, John McBratney, Will Carter (45 years), Clarence Miller, Mary Jo Ludwig, Chuck Paularena, and Cecil Gudmundson. Second row: Calvin Carter, Chuck Marks, James Reynolds, Will Pope, Ernie Reid, Rosalie Gardner, Lloyd Ripley (45 years), Ken Lake (staff), and John McSweeney (staff). Third row: Reggie Sanchez (staff), Dick Leonard, Lloyd Williams, Art Veitch (staff), Emmett Capossere, John DeBlanc (staff), Nat Antonioli, Jim Howerton, Ray Beuligmann (staff), Augie Daddi (staff), and Ed Squires (staff).

CONVAIR Weekly Log SPACE SYSTEMS

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November Deliveries



Once again, the cruise missile program has exceeded its contractual delivery requirements. For the month of November, 20 production missiles were delivered, as well as four maintenance vehicles and four flight test missiles. These deliveries place Convair eight vehicles ahead of the cumulative contract requirements.

In addition to the AURs, four TELs, one LCC, and four VHF communication systems were delivered. Congratulations to the Tomahawk team for their continued success.

Consortium on Software Productivity Research

General Dynamics has joined forces with 11 other major defense contractors and formed the Software Productivity Consortium (SPC). The goal of the SPC is to improve the productivity of the member companies' software engineers, resulting in significant cost savings to the government.

SPC will be operated as a centralized research facility at the Virginia Center for Innovative Technology near Washington, D.C.

General Dynamics has committed to a minimum three-year investment in SPC and will have a voice in the direction of the consortium through membership on the SPC board of directors. W.M. (Mac) Murray, Data Systems Division's director of technical software, has been nominated to serve as General Dynamics' SPC board member, and a General Dynamics internal SPC advisory board has been established.

The advisory board is seeking a few highly capable candidates to serve as research participants at SPC under a two-

year professional development program. The position requires relocation to the Washington, D.C. area for a maximum of two years and will be provided a special relocation allowance.

Interested Convair candidates should contact Randy Simpson, 39957, and interested Space Systems candidates should contact Larry Wray, 39445.

Blood Drives Set Record

The 1985 in-plant blood drives brought 1,498 units of blood to the San Diego Blood Bank, setting an all-time record.

Marion Campbell, medical secretary, was honored by the San Diego Blood Bank with a "valuable service" pin for her fine work coordinating the past drive, as well as previous blood drives. This award is given to those few individuals who are consistently effective in their efforts to coordinate regular, successful blood drives.

All Convair, Space Systems, and Data Systems divisions employees may apply for blood units for themselves and eligible dependents. If you have received blood, bring your invoices from the Blood Bank to the Employee Benefits office or mail them to MZ 50-1310, so that units from the Convair Reserve Fund can be credited against those units used.

Many thanks to all who donated and to the supporting departments, including Plant Services, Central Distribution, and to the EMTs who help make these drives successful.



From left to right are Bobbie Alex, RN - Medical Services supervisor, Debbie Syverson, Community Relations - San Diego Blood Bank, and Marion Campbell.

State of the Division 1985

Convair General Manager John McSweeney will present his State of the Division address at the January 15 meeting of the NMA Convair Chapter. The meeting, traditionally a sellout, will be held in the Town & Country Hotel. Tickets go on sale this week and will be available through NMACC boosters.

Important Prescription Drug Plan Information

Prescription drugs are available only under your respective medical plans:

- **Kaiser participants** — Your prescription, written by a Kaiser doctor or a dentist, will be filled at no cost to you. You must present the prescription, along with your Kaiser health card, at one of the nine Kaiser pharmacies in San Diego County.
- **Greater San Diego Health Plan participants** — Your prescription, written by a GSDHP doctor or dentist, will be filled at no cost to you. You must present the prescription, along with your GSDHP health card, at one of the participating GSDHP pharmacies.
- **General Dynamics Self-Funded Medical Plan (Aetna) participants** — Your prescription, written by your medical doctor or dentist, will be filled for you at a cost of \$1.25 per prescription. You must present your prescription, along with your participating drug plan card, at one of the participating pharmacies.

Brochures listing participating pharmacies for each respective medical plan are available at Kearny Mesa and Lindbergh Field Employee Benefits offices. If you have any questions, call 39916.

Kearny Mesa Facility Parking

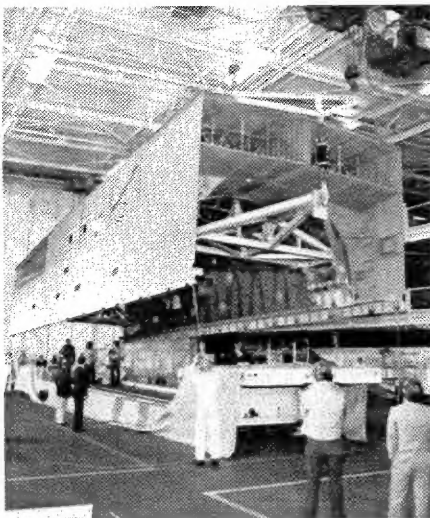
During the resurfacing of the parking lots at Kearny Mesa, the issuance of parking violation citations was relaxed, due to the limited spaces available. With the completion of the resurfacing, a large number of employees have continued to park illegally, jeopardizing the safety of people and vehicles.

Plant Protection officers will be taking

positive action to eliminate such safety hazards with special emphasis on Electronics Way, Convair Way, and Missile Way. Your cooperation in observing no-parking regulations will contribute to area safety. Unfortunately, repeat violators will be towed. However, beginning January 2, 1986, all vehicles — regardless of any previous violations — parked in no parking zones will be towed. Towing is at the vehicle-owner's expense, so help us all to benefit from the no-parking regulation.

Last OMF Delivered

The sixth and final Orbiter Mid-Fuselage (OMF) for the Space Transportation System was delivered to Rockwell International on December 4. The OMF program succeeded in delivering the product well ahead of schedule and below the projected cost. Congratulations to the OMF team for their excellent achievements.



Security Tip

Everyone is looking forward to the period when the plant closes down for the holiday season. Since the plant is going to be vacant for nine days, it is important that we take extra care to ensure that our classified material is secure.

Make sure that all security matters have been taken care of and that all classified material is locked in authorized security containers before you leave.

Alarm-equipped, secured areas such as strongrooms, closed areas, and other special access areas, will be monitored by Plant Protection officers. If you have a special access area that requires additional protection over the holidays, contact C.E. Miller, 73630.

Employment

For the week ending December 6, employment was 12,108.

ILS Employees Excel

Charlie Keys, manager — Technical Publications, recently presented EXCEL awards to employees of Technical Publications' reports, illustrations, and production groups. These groups teamed together to produce the contractually required revisions to the GLCM Maintenance Plan. Through their efforts, systems have been automated, turnaround time for producing documents has been improved, and revision costs have been reduced.

Due to his superb contributions toward editing and publishing the Maintenance Plan, Rick MacAdam was recognized as the Employee of the Month by George Roos, director — Integrated Logistic Support.



ILS EXCEL recipients, left to right, are Tony Adams, Rick MacAdam, Andrea Stephenson, Charlotte Morris, Patrick Andrews, Susan Breeden — reports group supervisor, Eileen Weber, Charlie Keys, manager — Technical Publications, and Ester Popejoy. Ray Pezzello, Mena Reilly, and Norma Roney were not available for photo.

Technology Modernization

Technology Modernization (Tech Mod) is a cooperative business arrangement between the United States Air Force and General Dynamics Convair Division. The goals of the program are to reduce production cost and to increase manufacturing productivity and quality at Convair. This is accomplished through the application of new technology and a financially sound capital investment program. The Tech Mod Program results in Convair and the Air Force sharing project costs and savings, thereby working together towards a factory of the future.

Convair completed the division's first Tech Mod (Phase I) contract in November 1985. Phase I included a factory analysis and the development of modernization concepts. Our first Phase II contract was awarded October 1985 to design and demonstrate a variety of robotic, vision, and computer systems.



These members from Manufacturing Technology comprise the Tech Mod team.